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② Selected Data on Graduate Students and Postdoctorates in Science and Engineering

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⑥ Fall 1992

Science and Engineering Education Program
Division of Science Resources Studies
⑤ National Science Foundation

NSF 94-301

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Selected Data on Graduate Students and Postdoctorates in Science and Engineering

Fall 1992

January 1994

Project Monitor:
J. G. Huckenpöhler

Science and Engineering Education Program
Division of Science Resources Studies
National Science Foundation

NSF 94-301

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GENERAL NOTES

Data presented in these tables are derived from the National Science Foundation/National Institutes of Health Survey of Graduate Science and Engineering Students and Postdoctorates, Fall 1992. Unless otherwise specified, the published data represent estimates of total enrollment in science and engineering (S&E) programs in approximately 10,800 graduate departments at some 730 institutions in the United States and outlying areas.

All eligible institutions were included in the survey population in the years 1988 through 1992. From 1984 through 1987 the surveys were conducted on a stratified random sample basis, with all doctorate-granting institutions and all master's-granting historically black colleges and universities included in the certainty stratum. Data for the remaining master's-granting institutions were divided into two sample strata on the basis of enrollment size. Data for sampled institutions were reestimated in 1988 on the basis of 1983 and 1988 data. During the 1989 survey cycle, S&E field definitions were reviewed and some subfields were deleted. Data for 1975 through 1988 were adjusted to conform to the revised definitions. In addition institutions may revise their data for earlier years. For these reasons only the latest trend data should be used in historical analyses.

Complete technical notes will appear in the full *Detailed Statistical Tables* publication, to be released early in 1994. For further information on data availability, please contact the Project Monitor:

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For More Information

For additional assistance contact:

E-mail: *stis-request@nsf.gov* (Internet)
Phone: 703-306-0214 (voice mail)
TDD: 703-306-0090

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DATA TAPES

For those wishing to access graduate student data at the individual department level, the data processing contractor, Quantum Research Corp., has made available single-year and multiyear data tapes at a cost of $100 for the first year's data and $35 for each additional year. A description of the data available on these tapes may be found in the *Guide to the National Science Foundation's Surveys of Academic Science and Engineering*. Order blanks and information on the formats of the tapes are available in the *Supplemental Guide to Data Tapes From the National Science Foundation's Surveys of Academic Science and Engineering*. Both of these publications may be obtained by calling NSF's Division of Science Resources Studies at (703) 306-1773.

CASPAR SYSTEM

Institutional planners are now able to acquire data from several academic science and engineering (S&E) resources on CD-ROM compact disc. The compact disc contains the Computer-Aided Science Policy Analysis and Research (CASPAR) database system, which is an easy-to-use tool for retrieval and analysis of statistical data on academic S&E resources. CASPAR provides the analyst with an extensive and growing data library with multiyear statistics on the state of higher education in general and on academic S&E resources specifically. This data library is based on a set of standardized institutional and field-of-science definitions across the multiple sources used to develop the database. The CASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

CASPAR data are drawn from a number of sources. All are available for individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by the NSF Division of Science Resources Studies include the Survey of Academic R&D Expenditures, the Survey of Federal Support to Universities and Nonprofit Institutions, and the Survey of Graduate Students and Postdoctorates in Science and Engineering. Data from surveys of universities and colleges conducted by the National Center for Education Statistics include earned degrees, opening fall enrollment, faculty salaries, tenure and fringe benefits, and financial statistics. Data from other sources include the National Research Council doctorate program ratings.

For additional information on CASPAR write to the following address:

Quantum Research Corp.
7315 Wisconsin Avenue, Suite 631W
Bethesda, MD 20814

Telephone (301) 657-3070

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Table 1. Science and engineering graduate students, by field and enrollment status, in all institutions according to highest degree granted: 1992

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Field	In all institutions			Doctorate-granting			Master's-granting		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
Total, all surveyed fields	495,397	323,399	171,998	427,792	299,753	128,039	67,605	23,646	43,959
Total, science and engineering fields	431,613	290,993	140,620	374,781	270,984	103,797	56,832	20,009	36,823
Sciences, total	313,566	216,527	97,039	266,489	199,161	67,328	47,077	17,366	29,711
Physical sciences	35,496	30,730	4,766	33,611	30,011	3,600	1,885	719	1,166
Astronomy	869	840	29	869	840	29	0	0	0
Chemistry	19,904	16,990	2,914	18,799	16,611	2,188	1,105	379	726
Physics	14,264	12,745	1,519	13,734	12,432	1,302	530	313	217
Physical sciences, n.e.c.	459	155	304	209	128	81	250	27	223
Earth, atmospheric, & ocean sciences	15,609	11,150	4,459	13,964	10,567	3,397	1,645	583	1,062
Atmospheric sciences	1,089	959	130	1,076	958	118	13	1	12
Geosciences	7,759	5,889	1,870	7,233	5,662	1,571	526	227	299
Oceanography	2,530	2,133	397	2,393	2,055	338	137	78	59
Earth, atmos., & ocean sci., n.e.c.	4,231	2,169	2,062	3,262	1,892	1,370	969	277	692
Mathematical sciences	20,375	14,663	5,712	17,890	13,889	4,001	2,485	774	1,711
Mathematics & applied mathematics	17,426	12,370	5,056	15,130	11,633	3,497	2,296	737	1,559
Statistics	2,949	2,293	656	2,760	2,256	504	189	37	152
Computer sciences	36,396	17,617	18,779	29,042	15,554	13,488	7,354	2,063	5,291
Agricultural sciences	11,609	9,280	2,329	10,891	8,907	1,984	718	373	345
Biological sciences	54,437	44,518	9,919	50,223	42,769	7,454	4,214	1,749	2,465
Anatomy	1,031	961	70	1,031	961	70	0	0	0
Biochemistry	5,386	5,055	331	5,342	5,040	302	44	15	29
Biology	13,897	9,683	4,214	10,814	8,328	2,486	3,083	1,355	1,728
Biometry/epidemiology	2,369	1,627	742	2,369	1,627	742	0	0	0
Biophysics	751	728	23	751	728	23	0	0	0
Botany	2,690	2,308	382	2,627	2,247	380	63	61	2
Cell biology	3,093	2,956	137	3,093	2,956	137	0	0	0
Ecology	1,301	997	304	1,155	976	179	146	21	125
Entomology/parasitology	1,193	1,016	177	1,193	1,016	177	0	0	0
Genetics	1,643	1,530	113	1,603	1,492	111	40	38	2
Microbio., immunology, & virology	5,008	4,482	526	4,968	4,467	501	40	15	25
Nutrition	4,245	2,943	1,302	3,857	2,822	1,035	388	121	267
Pathology	1,517	1,209	308	1,440	1,182	258	77	27	50
Pharmacology	2,545	2,401	144	2,545	2,401	144	0	0	0
Physiology	2,319	2,162	157	2,319	2,162	157	0	0	0
Zoology	2,203	1,793	410	2,181	1,772	409	22	21	1
Biosciences, n.e.c.	3,246	2,667	579	2,935	2,592	343	311	75	236
Psychology	53,820	34,386	19,434	37,698	27,192	10,506	16,122	7,194	8,928
Psychology, general	23,117	12,912	10,205	15,397	10,031	5,366	7,720	2,881	4,839
Clinical psychology	18,738	13,288	5,450	12,978	10,139	2,839	5,760	3,149	2,611
Psychology, n.e.c.	11,965	8,186	3,779	9,323	7,022	2,301	2,642	1,164	1,478
Social sciences	85,824	54,183	31,641	73,170	50,272	22,898	12,654	3,911	8,743
Agricultural economics	2,513	2,106	407	2,445	2,070	375	68	36	32
Anthropology (cultural & social)	7,129	5,323	1,806	6,804	5,196	1,608	325	127	198
Economics (except agricultural)	13,266	10,213	3,053	12,273	9,781	2,492	993	432	561
Geography	4,097	2,792	1,305	3,422	2,536	886	675	256	419
History and philosophy of science	360	328	32	360	328	32	0	0	0
Linguistics	3,288	2,473	815	2,941	2,397	544	347	76	271
Political science	33,770	17,689	16,081	27,081	15,834	11,247	6,689	1,855	4,834
Sociology	8,861	6,328	2,533	7,612	5,862	1,750	1,249	466	783
Sociology/anthropology	1,123	741	382	1,046	702	344	77	39	38
Social sciences, n.e.c.	11,417	6,190	5,227	9,186	5,566	3,620	2,231	624	1,607
Engineering, total	118,047	74,466	43,581	108,292	71,823	36,469	9,755	2,643	7,112
Aerospace engineering	4,036	3,306	730	3,999	3,293	706	37	13	24
Agricultural engineering	989	829	160	989	829	160	0	0	0
Biomedical engineering	2,479	2,110	369	2,427	2,081	346	52	29	23
Chemical engineering	7,415	5,943	1,472	7,233	5,866	1,367	182	77	105
Civil engineering	19,385	12,379	7,006	17,727	11,854	5,873	1,658	525	1,133
Electrical engineering	36,272	20,991	15,281	32,575	20,080	12,495	3,697	911	2,786
Engineering science	2,218	1,415	803	2,185	1,408	777	33	7	26
Industrial eng./management sci.	13,735	6,092	7,643	12,178	5,778	6,400	1,557	314	1,243
Mechanical engineering	18,768	12,425	6,343	17,499	12,030	5,469	1,269	395	874
Metallurgical/materials eng.	5,470	4,289	1,181	5,281	4,261	1,020	189	28	161
Mining engineering	479	305	174	468	295	173	11	10	1
Nuclear engineering	1,286	1,084	202	1,286	1,084	202	0	0	0
Petroleum engineering	737	572	165	721	558	163	16	14	2
Engineering, n.e.c.	4,778	2,726	2,052	3,724	2,406	1,318	1,054	320	734

See explanatory information, if any, and SOURCE(S) at end of table.

Table 1. Science and engineering graduate students, by field and enrollment status, in all institutions according to highest degree granted: 1992

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Field	In all institutions			Doctorate-granting			Master's-granting		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
Total, health fields	63,784	32,406	31,378	53,011	28,769	24,242	10,773	3,637	7,136
Medical fields	12,470	7,853	4,617	11,713	7,625	4,088	757	228	529
Anesthesiology	594	425	169	397	337	60	197	88	109
Cardiology	8	8	0	8	8	0	0	0	0
Oncology/cancer research	200	196	4	200	196	4	0	0	0
Endocrinology	74	73	1	74	73	1	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0	0
Hematology	5	5	0	5	5	0	0	0	0
Neurology	1,117	1,072	45	1,102	1,069	33	15	3	12
Obstetrics and gynecology	3	3	0	3	3	0	0	0	0
Ophthalmology	20	9	11	20	9	11	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0	0
Pediatrics	154	119	35	154	119	35	0	0	0
Preventive medicine/community health	8,737	4,830	3,907	8,416	4,776	3,640	321	54	267
Psychiatry	96	44	52	96	44	52	0	0	0
Pulmonary disease	0	0	0	0	0	0	0	0	0
Radiology	252	189	63	252	189	63	0	0	0
Surgery	82	77	5	82	77	5	0	0	0
Clinical medicine, n.e.c.	1,128	803	325	904	720	184	224	83	141
Other health fields	51,314	24,553	26,761	41,298	21,144	20,154	10,016	3,409	6,607
Dental sciences	1,067	944	123	1,067	944	123	0	0	0
Nursing	23,333	6,330	17,003	19,588	5,578	14,010	3,745	752	2,993
Pharmaceutical sciences	2,846	2,123	723	2,830	2,123	707	16	0	16
Speech pathology/audiology	10,017	7,212	2,805	7,520	5,603	1,917	2,497	1,609	888
Veterinary sciences	942	754	188	923	743	180	19	11	8
Health related, n.e.c.	13,109	7,190	5,919	9,370	6,153	3,217	3,739	1,037	2,702

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 2. Science and engineering graduate students in all institutions, by field and citizenship and by racial/ethnic background of U.S. citizens: 1992

Page 1 of 1

Field	Total	Racial/ethnic background of U.S. citizens						Non-U.S. citizens
		Black non-Hispanic	American Indian/ Alaskan Native	Asian/ Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	495,397	18,440	1,528	24,175	14,713	303,194	19,682	113,665
Total, science and engineering fields	431,613	15,370	1,253	21,967	12,243	253,968	17,648	109,164
Sciences, total	313,566	12,998	1,076	13,391	9,793	196,600	11,742	67,966
Physical sciences	35,496	806	67	1,613	680	18,632	867	12,831
Astronomy	869	10	4	25	11	576	18	225
Chemistry	19,904	566	37	891	423	10,593	463	6,931
Physics	14,264	210	26	670	230	7,160	358	5,610
Physical sciences, n.e.c.	459	20	0	27	16	303	28	65
Earth, atmospheric, & ocean sciences	15,609	207	37	394	312	11,118	525	3,016
Atmospheric sciences	1,089	13	1	52	12	682	17	312
Geosciences	7,759	75	25	162	141	5,399	286	1,671
Oceanography	2,530	28	4	70	65	1,653	117	593
Earth, atmos., & ocean sci., n.e.c.	4,231	91	7	110	94	3,384	105	440
Mathematical sciences	20,375	578	26	943	377	10,853	1,101	6,497
Computer sciences	36,396	1,050	82	3,494	695	16,958	2,150	11,967
Agricultural sciences	11,609	179	39	216	283	7,535	212	3,145
Biological sciences	54,437	1,491	139	2,842	1,484	34,394	1,254	12,833
Anatomy	1,031	29	2	105	34	614	14	233
Biochemistry	5,386	86	10	413	108	2,907	86	1,776
Biology	13,897	507	45	698	571	9,369	545	2,162
Biometry/epidemiology	2,369	96	10	139	72	1,472	19	561
Biophysics	751	13	1	61	9	414	0	253
Botany	2,690	36	7	60	33	1,641	23	890
Cell biology	3,093	48	13	174	73	2,006	64	715
Ecology	1,301	15	7	20	34	1,038	40	147
Entomology/parasitology	1,193	21	1	45	32	735	22	337
Genetics	1,643	32	2	98	30	1,106	11	364
Microbio., immunology, & virology	5,008	129	7	255	132	3,196	56	1,233
Nutrition	4,245	138	12	177	84	2,480	88	1,266
Pathology	1,517	46	1	89	30	925	56	370
Pharmacology	2,545	84	12	138	59	1,521	38	693
Physiology	2,319	84	1	200	53	1,287	65	649
Zoology	2,203	18	6	43	39	1,717	43	337
Biosciences, n.e.c.	3,246	109	2	127	91	1,986	84	847
Psychology	53,820	2,788	291	1,297	2,378	42,593	2,484	1,989
Social sciences	85,824	5,899	395	2,592	3,584	54,517	3,140	15,688
Agricultural economics	2,513	79	13	27	47	1,179	34	1,134
Anthropology (cultural & social)	7,129	174	74	172	222	5,340	333	814
Economics (except agricultural)	13,266	376	22	571	334	5,907	538	5,518
Geography	4,097	87	26	99	97	3,167	89	532
Linguistics	3,288	46	3	140	167	1,760	75	1,097
Political science	33,770	3,169	125	941	1,769	22,961	1,197	3,608
Sociology	8,861	736	64	262	369	5,624	283	1,523
Sociology/anthropology	1,123	135	1	6	34	760	41	146
Social sciences, other	11,777	1,097	67	374	545	7,819	559	1,316
Engineering, total	118,047	2,372	177	8,576	2,450	57,368	5,906	41,198
Aerospace engineering	4,036	47	6	179	68	2,233	305	1,198
Agricultural engineering	989	8	1	17	8	442	1	512
Biomedical engineering	2,479	43	3	202	53	1,367	61	750
Chemical engineering	7,415	146	15	438	175	3,265	180	3,196
Civil engineering	19,385	338	30	999	475	10,072	733	6,738
Electrical engineering	36,272	765	38	3,815	746	15,841	2,273	12,794
Engineering science	2,218	38	2	134	27	1,269	40	708
Industrial eng./management sci.	13,735	450	43	808	296	7,518	765	3,855
Mechanical engineering	18,768	322	24	1,186	397	9,139	952	6,748
Metallurgical/materials eng.	5,470	60	4	327	72	2,603	223	2,181
Nuclear engineering	1,268	17	1	39	32	692	10	495
Engineering, other	5,994	138	10	432	101	2,927	363	2,023
Total, health fields	63,784	3,070	275	2,208	2,470	49,226	2,034	4,501
Clinical fields	2,616	72	8	234	56	1,646	183	417
Dental sciences	1,067	21	3	85	38	677	5	238
Nursing	23,333	1,201	109	553	611	19,836	669	354
Pharmaceutical sciences	2,846	75	3	170	79	1,303	73	1,143
Preventive medicine/community health	8,737	648	51	507	720	5,551	207	1,053
Speech pathology/audiology	10,017	440	54	138	353	8,309	320	403
Veterinary sciences	942	41	1	30	22	603	7	238
Other health fields	14,226	572	46	491	591	11,301	570	655

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 3. Science and engineering graduate students, by geographic distribution and enrollment status, in all institutions according to highest degree granted: 1992

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Geographic distribution	In all institutions			Doctorate-granting			Master's-granting		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
Total, all institutions	495,397	323,399	171,998	427,792	299,753	128,039	67,605	23,646	43,959
New England	35,553	24,697	10,856	31,211	23,622	7,589	4,342	1,075	3,267
Connecticut	7,372	4,396	2,976	4,617	3,804	813	2,755	592	2,163
Maine	854	709	145	854	709	145	0	0	0
Massachusetts	22,977	16,196	6,781	21,640	15,778	5,862	1,337	418	919
New Hampshire	1,257	999	258	1,125	986	139	132	13	119
Rhode Island	2,342	1,853	489	2,259	1,836	423	83	17	66
Vermont	751	544	207	716	509	207	35	35	0
Middle Atlantic	84,691	47,974	36,717	70,955	44,336	26,619	13,736	3,638	10,098
New Jersey	12,100	5,869	6,231	10,962	5,588	5,374	1,138	281	857
New York	49,381	27,899	21,482	40,437	25,666	14,771	8,944	2,233	6,711
Pennsylvania	23,210	14,206	9,004	19,556	13,082	6,474	3,654	1,124	2,530
East North Central	86,593	60,699	25,894	78,584	57,737	20,847	8,009	2,962	5,047
Illinois	25,591	17,074	8,517	21,417	15,627	5,790	4,174	1,447	2,727
Indiana	10,201	8,166	2,035	9,885	8,054	1,831	316	112	204
Michigan	18,245	11,960	6,285	16,709	11,453	5,256	1,536	507	1,029
Ohio	22,232	15,995	6,237	21,789	15,768	6,021	443	227	216
Wisconsin	10,324	7,504	2,820	8,784	6,835	1,949	1,540	669	871
West North Central	32,031	21,691	10,340	28,102	20,238	7,864	3,929	1,453	2,476
Iowa	5,708	4,585	1,123	5,466	4,542	924	242	43	199
Kansas	5,822	3,268	2,554	5,362	2,956	2,406	460	312	148
Minnesota	7,735	5,487	2,248	5,887	4,901	986	1,848	586	1,262
Missouri	7,529	4,816	2,713	6,873	4,457	2,416	656	359	297
Nebraska	3,065	1,854	1,211	2,342	1,701	641	723	153	570
North Dakota	985	821	164	985	821	164	0	0	0
South Dakota	1,187	860	327	1,187	860	327	0	0	0
South Atlantic	77,115	47,435	29,680	70,361	44,824	25,537	6,754	2,611	4,143
Delaware	1,599	1,159	440	1,562	1,147	415	37	12	25
District of Columbia	9,253	3,986	5,267	9,150	3,929	5,221	103	57	46
Florida	15,949	8,615	7,334	15,534	8,490	7,044	415	125	290
Georgia	9,426	6,934	2,492	8,505	6,433	2,072	921	501	420
Maryland	10,795	6,103	4,692	8,375	5,447	2,928	2,420	656	1,764
North Carolina	11,074	8,589	2,485	9,417	7,797	1,620	1,657	792	865
South Carolina	4,356	3,140	1,216	4,168	3,024	1,144	188	116	72
Virginia	12,098	7,520	4,578	11,624	7,226	4,398	474	294	180
West Virginia	2,565	1,389	1,176	2,026	1,331	695	539	58	481
East South Central	21,128	13,753	7,375	18,043	12,199	5,844	3,085	1,554	1,531
Alabama	6,651	4,228	2,423	5,913	3,773	2,140	738	455	283
Kentucky	4,440	2,898	1,542	3,512	2,383	1,129	928	515	413
Mississippi	2,854	2,197	657	2,572	2,049	523	282	148	134
Tennessee	7,183	4,430	2,753	6,046	3,994	2,052	1,137	436	701
West South Central	48,815	31,048	17,767	41,636	28,008	13,628	7,179	3,040	4,139
Arkansas	2,183	1,449	734	1,290	924	366	893	525	368
Louisiana	6,377	4,943	1,434	5,739	4,713	1,026	638	230	408
Oklahoma	5,238	2,822	2,416	4,976	2,720	2,256	262	102	160
Texas	35,017	21,834	13,183	29,631	19,651	9,980	5,386	2,183	3,203
Mountain	31,137	21,097	10,040	29,635	20,687	8,948	1,502	410	1,092
Arizona	7,791	5,414	2,377	7,791	5,414	2,377	0	0	0
Colorado	9,890	6,236	3,654	9,195	6,236	2,959	695	0	695
Idaho	1,568	849	719	1,568	849	719	0	0	0
Montana	1,324	1,068	256	1,215	989	226	109	79	30
Nevada	1,530	964	566	1,009	691	318	521	273	248
New Mexico	3,570	2,518	1,052	3,393	2,460	933	177	58	119
Utah	4,549	3,391	1,158	4,549	3,391	1,158	0	0	0
Wyoming	915	657	258	915	657	258	0	0	0
Pacific	75,484	52,750	22,734	56,447	45,862	10,585	19,037	6,888	12,149
Alaska	814	480	334	571	418	153	243	62	181
California	61,262	41,817	19,445	43,674	35,697	7,977	17,588	6,120	11,468
Hawaii	2,083	1,678	405	2,083	1,678	405	0	0	0
Oregon	4,320	3,381	939	4,218	3,339	879	102	42	60
Washington	7,005	5,394	1,611	5,901	4,730	1,171	1,104	664	440
Outlying areas	2,850	2,255	595	2,818	2,240	578	32	15	17

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 4. Full-time science and engineering graduate students, by source and type of major support in all institutions according to highest degree granted: 1992

Page 1 of 1

Highest degree granted and source of major support	Total	Fellowships	Traineeships	Research assistant-ships	Teaching assistant-ships	Other types of support
			In all institutions			
Total, all sources	323,399	28,832	15,401	87,608	65,728	125,830
Federal, total	65,714	7,832	10,017	42,295	644	4,926
Dept of Defense	9,140	647	93	5,668	0	2,732
Dept of HHS, total	21,287	1,303	7,895	11,464	215	410
NIH	16,985	1,102	4,945	10,448	187	303
Other HHS	4,302	201	2,950	1,016	28	107
NSF	13,298	2,367	109	10,625	97	100
USDA	3,231	125	31	2,945	27	103
All other Federal	18,758	3,390	1,889	11,593	305	1,581
Institutional support	128,055	14,455	4,560	31,707	64,513	12,820
Other outside support, total	27,880	6,545	824	13,606	571	6,334
All other U.S.	21,452	4,098	645	12,790	571	3,348
Foreign	6,428	2,447	179	816	0	2,986
Self-support	101,750	0	0	0	0	101,750
			Doctorate-granting			
Total, all sources	299,753	28,023	14,840	85,361	63,176	108,353
Federal, total	64,101	7,655	9,693	41,675	611	4,467
Dept of Defense	8,991	638	81	5,594	0	2,678
Dept of HHS, total	20,944	1,296	7,706	11,361	213	366
NIH	16,852	1,097	4,913	10,368	185	289
Other HHS	4,092	199	2,793	993	28	79
NSF	13,192	2,350	109	10,542	93	98
USDA	3,141	119	31	2,867	21	103
All other Federal	17,833	3,252	1,766	11,311	284	1,220
Institutional support	121,899	13,917	4,340	30,248	62,038	11,356
Other outside support, total	27,374	6,451	807	13,438	527	6,151
All other U.S.	21,029	4,029	628	12,623	527	3,222
Foreign	6,345	2,422	179	815	0	2,929
Self-support	86,379	0	0	0	0	86,379
			Masters-granting			
Total, all sources	23,646	809	561	2,247	2,552	17,477
Federal, total	1,613	177	324	620	33	459
Dept of Defense	149	9	12	74	0	54
Dept of HHS, total	343	7	189	103	2	42
NIH	133	5	32	80	2	14
Other HHS	210	2	157	23	0	28
NSF	106	17	0	83	4	2
USDA	90	6	0	78	6	0
All other Federal	925	138	123	282	21	361
Institutional support	6,156	538	220	1,459	2,475	1,464
Other outside support, total	506	94	17	168	44	183
All other U.S.	423	69	17	167	44	126
Foreign	83	25	0	1	0	57
Self-support	15,371	0	0	0	0	15,371

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 5. Science and engineering graduate students in all institutions, by enrollment status and field: 1975-92

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Year	Total, all surveyed fields	Sciences								
		Sciences, total	Physical sciences	Earth, atmos-pheric, & ocean sciences	Mathe-matical sciences	Computer sciences	Agri-cultural sciences	Biological sciences	Psychology	Social sciences
	Total enrollment									
1975	328,892	234,982	26,310	12,289	16,918	8,415	10,586	46,530	36,191	77,743
1976	334,128	238,956	26,631	13,034	17,092	8,627	11,175	47,844	37,458	77,095
1977	345,820	243,192	26,855	13,658	16,069	9,108	11,557	49,336	38,617	77,992
1978 1/	345,187	239,966	26,379	13,484	15,077	9,925	11,753	48,600	38,188	76,560
1979	358,622	248,131	26,695	13,854	15,051	11,690	12,118	48,308	39,766	80,649
1980	368,328	252,137	26,945	14,208	15,350	13,578	12,304	47,703	40,610	81,439
1981	376,326	253,198	27,369	14,422	15,906	16,437	12,164	46,775	40,666	79,459
1982	383,380	255,828	28,187	15,174	17,178	19,812	12,389	46,084	40,073	76,931
1983	391,818	256,735	29,456	15,590	17,380	23,437	12,264	45,727	40,905	71,976
1984 2/	395,660	257,508	30,056	15,655	17,459	25,620	12,057	45,837	40,931	69,893
1985 2/	405,596	262,971	30,981	15,591	17,591	29,602	11,364	46,201	41,173	70,468
1986 2/	416,577	266,571	32,248	15,210	17,967	31,175	11,281	46,873	41,417	70,400
1987 2/	422,585	269,826	32,730	14,522	18,524	31,901	10,942	46,901	42,750	71,556
1988	425,932	272,710	32,962	14,067	19,103	32,053	10,940	47,682	44,127	71,776
1989	436,071	279,298	33,619	13,830	19,308	32,320	10,979	48,970	46,003	74,269
1990	454,065	290,418	34,135	14,195	19,801	34,349	11,125	50,090	48,678	78,045
1991	472,950	300,266	34,799	14,720	19,978	34,788	11,315	51,875	51,791	81,000
1992	495,397	313,566	35,496	15,609	20,375	36,396	11,609	54,437	53,820	85,824
	Full-time									
1975	219,961	164,733	21,916	9,677	10,695	4,473	8,779	37,000	24,105	48,088
1976	223,705	168,104	22,252	10,219	10,952	4,748	9,347	38,002	25,643	46,941
1977	227,078	169,408	22,505	10,556	10,365	4,604	9,607	38,502	25,703	47,566
1978 1/	225,072	165,537	22,158	10,511	9,804	4,926	9,598	38,122	24,963	45,455
1979	232,231	169,311	22,535	10,724	9,667	5,853	9,848	38,086	25,848	46,750
1980	238,849	172,020	22,918	10,969	9,902	6,587	10,042	37,791	26,671	47,140
1981	242,453	172,406	23,308	11,038	10,154	7,445	10,142	37,411	26,570	46,338
1982	245,062	172,192	24,038	11,436	10,814	9,171	9,957	36,810	25,667	44,299
1983	252,391	175,638	25,205	12,068	10,957	10,586	9,835	36,827	26,561	43,599
1984 2/	254,277	176,016	25,852	11,837	11,311	11,423	9,765	37,196	25,969	42,663
1985 2/	258,029	178,584	26,669	11,458	11,828	13,824	9,096	37,086	25,621	43,002
1986 2/	266,685	182,916	27,764	11,347	12,390	15,035	9,211	37,889	26,344	42,936
1987 2/	271,646	185,537	28,414	10,543	13,044	15,308	8,964	38,359	27,317	43,588
1988	275,792	187,849	28,574	10,305	13,514	15,088	8,967	39,301	28,242	43,858
1989	283,353	192,707	29,207	10,138	13,695	15,558	8,900	40,459	29,505	45,245
1990	293,686	199,706	29,497	10,377	13,868	16,729	8,955	41,028	30,828	48,424
1991	307,628	206,580	30,109	10,518	14,262	16,652	9,151	42,789	32,393	50,706
1992	323,399	216,527	30,730	11,150	14,663	17,617	9,280	44,518	34,386	54,183
	Part-time									
1975	108,931	70,249	4,394	2,612	6,223	3,942	1,807	9,530	12,086	29,655
1976	110,423	70,852	4,379	2,815	6,140	3,879	1,828	9,842	11,815	30,154
1977	118,742	73,784	4,350	3,102	5,704	4,504	1,950	10,834	12,914	30,426
1978 1/	120,115	74,429	4,221	2,973	5,273	4,992	2,155	10,478	12,225	31,105
1979	126,391	78,820	4,160	3,130	5,384	5,837	2,270	10,222	13,918	33,899
1980	129,479	80,117	4,027	3,239	5,448	6,991	2,262	9,912	13,939	34,299
1981	133,873	80,792	4,061	3,384	5,752	8,992	2,022	9,364	14,096	33,121
1982	138,318	83,636	4,149	3,738	6,364	10,641	2,432	9,274	14,406	32,632
1983	139,427	81,097	4,251	3,522	6,423	12,851	2,429	8,900	14,344	28,377
1984 2/	141,383	81,492	4,204	3,818	6,148	14,197	2,292	8,641	14,962	27,230
1985 2/	147,567	84,387	4,312	4,133	5,763	15,778	2,268	9,115	15,552	27,466
1986 2/	149,892	83,655	4,484	3,863	5,577	16,140	2,070	8,984	15,073	27,464
1987 2/	150,939	84,289	4,316	3,979	5,480	16,593	1,978	8,542	15,433	27,968
1988	150,140	84,861	4,388	3,762	5,589	16,965	1,973	8,381	15,885	27,918
1989	152,718	86,591	4,412	3,692	5,613	16,762	2,079	8,511	16,498	29,024
1990	160,379	90,712	4,638	3,818	5,933	17,620	2,170	9,062	17,850	29,621
1991	165,322	93,686	4,690	4,202	5,716	18,136	2,164	9,086	19,398	30,294
1992	171,998	97,039	4,763	4,459	5,712	18,779	2,329	9,919	19,434	31,641

See explanatory information, if any, and SOURCE(S) at end of table.

Table 5. Science and engineering graduate students in all institutions, by enrollment status and field: 1975-92

Page 2 of 2

Year	Engineering: Engineering, total	Engineering: Aerospace engineering	Engineering: Chemical engineering	Engineering: Civil engineering	Engineering: Electrical engineering	Engineering: Industrial engineering	Engineering: Mechanical engineering	Engineering: Metallurgical & materials engineering	Engineering: Other engineering	Health fields
	Total enrollment									
1975	68,271	1,670	5,034	12,560	16,320	11,663	8,601	2,352	10,071	25,639
1976	66,657	1,477	5,205	11,995	15,926	10,687	8,313	2,375	10,679	28,515
1977	68,702	1,518	5,201	12,352	17,406	10,438	8,722	2,559	10,506	33,926
1978 1/	68,661	1,460	5,751	12,771	17,365	9,569	8,704	2,569	10,472	36,560
1979	71,727	1,481	5,605	12,836	17,715	10,714	9,251	2,756	11,369	38,764
1980	74,365	1,737	6,015	13,111	19,132	9,737	9,888	2,910	11,835	41,826
1981	79,629	1,883	6,496	14,103	20,113	9,797	10,618	3,125	13,494	43,499
1982	83,770	1,941	7,189	14,146	21,927	9,641	11,467	3,124	14,335	43,782
1983	91,175	2,305	7,563	14,921	25,295	9,373	12,911	3,447	15,360	43,908
1984 2/	92,894	2,340	7,373	15,203	26,388	9,535	13,855	3,657	14,543	45,258
1985 2/	96,214	2,538	7,150	14,916	28,203	10,805	14,157	3,943	14,502	46,411
1986 2/	102,135	2,804	7,012	14,987	29,969	11,843	15,713	4,208	15,599	47,871
1987 2/	104,104	3,015	7,111	14,718	31,399	12,416	16,366	4,366	14,713	48,655
1988	103,137	3,223	6,618	14,822	32,035	11,638	16,186	4,335	14,280	50,085
1989	104,150	3,454	6,460	14,919	33,257	11,328	16,212	4,589	13,931	52,623
1990	107,728	3,866	6,735	15,553	33,722	11,505	16,788	4,946	14,613	55,919
1991	113,300	4,052	7,127	17,356	34,973	12,832	17,647	5,164	14,149	59,384
1992	118,047	4,036	7,415	19,385	36,272	13,735	18,768	5,470	12,966	63,784
	Full-time									
1975	37,762	1,245	3,515	7,363	8,278	4,152	4,931	1,787	6,491	17,466
1976	36,882	1,165	3,691	7,025	8,147	3,578	4,919	1,860	6,497	18,719
1977	37,173	1,187	3,873	7,111	8,528	3,343	4,883	1,951	6,297	20,497
1978 1/	37,913	1,138	4,258	7,673	8,512	3,256	4,952	1,973	6,151	21,622
1979	39,981	1,152	4,218	7,637	9,039	3,743	5,428	2,135	6,629	22,939
1980	42,661	1,327	4,490	7,964	9,963	3,764	5,841	2,254	7,058	24,168
1981	45,767	1,483	4,989	8,805	10,450	3,639	6,422	2,454	7,525	24,280
1982	49,787	1,522	5,608	9,398	11,533	3,827	7,267	2,478	8,154	23,083
1983	53,925	1,840	5,869	9,807	13,265	3,322	8,330	2,704	8,788	22,828
1984 2/	55,191	1,854	5,734	10,089	13,925	3,433	8,698	2,872	8,586	23,070
1985 2/	55,911	1,994	5,546	9,760	14,799	3,494	8,875	3,093	8,350	23,534
1986 2/	60,192	2,154	5,594	9,982	16,290	3,849	9,789	3,370	9,164	23,577
1987 2/	61,983	2,372	5,674	9,651	17,101	4,210	10,230	3,436	9,309	24,126
1988	63,117	2,533	5,359	9,957	17,706	4,361	10,426	3,464	9,311	24,826
1989	64,448	2,772	5,282	9,974	18,466	4,725	10,464	3,715	9,050	26,198
1990	66,054	3,010	5,443	10,139	18,675	4,860	10,816	3,934	9,177	27,926
1991	70,771	3,325	5,788	11,340	19,719	5,571	11,580	4,062	9,386	30,277
1992	74,466	3,306	5,943	12,379	20,991	6,092	12,425	4,289	9,041	32,406
	Part-time									
1975	30,509	425	1,519	5,197	8,042	7,511	3,670	565	3,580	8,173
1976	29,775	312	1,514	4,970	7,779	7,109	3,394	515	4,182	9,796
1977	31,529	331	1,328	5,241	8,878	7,095	3,839	608	4,209	13,429
1978 1/	30,748	322	1,493	5,098	8,853	6,313	3,752	596	4,321	14,938
1979	31,746	329	1,387	5,199	8,676	6,971	3,823	621	4,740	15,825
1980	31,704	410	1,525	5,147	9,169	5,973	4,047	656	4,777	17,658
1981	33,862	400	1,507	5,298	9,663	6,158	4,196	671	5,969	19,219
1982	33,983	419	1,581	4,748	10,394	5,814	4,200	646	6,181	20,699
1983	37,250	465	1,694	5,114	12,030	6,051	4,581	743	6,572	21,080
1984 2/	37,703	486	1,639	5,114	12,463	6,102	5,157	785	5,957	22,188
1985 2/	40,303	544	1,604	5,156	13,404	7,311	5,282	850	6,152	22,877
1986 2/	41,943	650	1,418	5,005	13,679	7,994	5,924	838	6,435	24,294
1987 2/	42,121	643	1,437	5,067	14,298	8,206	6,136	930	5,404	24,529
1988	40,020	690	1,259	4,865	14,329	7,277	5,760	871	4,969	25,259
1989	39,702	682	1,178	4,945	14,791	6,603	5,748	874	4,881	26,425
1990	41,674	856	1,292	5,414	15,047	6,645	5,972	1,012	5,436	27,993
1991	42,529	727	1,339	6,016	15,254	7,261	6,067	1,102	4,763	29,107
1992	43,581	730	1,472	7,006	15,281	7,643	6,343	1,181	3,925	31,378

1/ Master's-granting institutions were not surveyed in 1978; totals include estimates based on 1977 and 1979 data.

2/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984 through 1987. See "Technical Notes" for further information.

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 6. Science and engineering graduate students in all institutions, by field: 1985-92

Page 1 of 2

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	405,596	416,577	422,585	425,932	436,071	454,065	472,950	495,397
Total, science and engineering fields	359,185	368,706	373,930	375,847	383,448	398,146	413,566	431,613
Sciences, total	262,971	266,571	269,826	272,710	279,298	290,418	300,266	313,566
Physical sciences	30,981	32,248	32,730	32,962	33,619	34,135	34,799	35,496
Astronomy	671	689	722	731	789	810	629	869
Chemistry	18,300	18,737	18,819	18,572	18,812	19,101	19,388	19,904
Physics	11,672	12,439	12,807	13,308	13,657	13,868	14,140	14,264
Physical sciences, n.e.c.	338	383	382	351	361	356	442	459
Earth, atmospheric, & ocean sciences	15,591	15,210	14,522	14,067	13,830	14,195	14,720	15,609
Atmospheric sciences	964	961	952	940	912	929	968	1,089
Geosciences	10,294	9,819	8,998	8,463	8,052	7,694	7,583	7,759
Oceanography	2,081	2,128	2,127	2,033	2,207	2,333	2,386	2,530
Earth, atmos., & ocean sci., n.e.c.	2,252	2,302	2,445	2,631	2,659	3,239	3,783	4,231
Mathematical sciences	17,591	17,967	18,524	19,103	19,308	19,801	19,978	20,375
Mathematics & applied mathematics	15,465	15,633	16,031	16,516	16,784	17,123	17,232	17,426
Statistics	2,126	2,334	2,493	2,587	2,524	2,678	2,746	2,949
Computer sciences	29,602	31,175	31,901	32,053	32,320	34,349	34,788	36,396
Agricultural sciences	11,364	11,281	10,942	10,940	10,979	11,125	11,315	11,609
Biological sciences	46,201	46,873	46,901	47,682	48,970	50,090	51,875	54,437
Anatomy	993	973	1,016	1,056	1,078	996	1,051	1,031
Biochemistry	4,656	4,875	4,813	4,921	5,082	5,053	5,207	5,386
Biology	12,710	12,678	12,331	12,393	12,761	13,035	13,299	13,897
Biometry/epidemiology	1,360	1,434	1,556	1,682	1,722	1,871	2,032	2,369
Biophysics	441	547	591	592	655	642	697	751
Botany	3,188	3,149	3,005	2,936	2,844	2,720	2,675	2,690
Cell biology	1,429	1,716	1,964	2,078	2,234	2,555	2,809	3,093
Ecology	1,028	1,022	963	999	1,084	1,136	1,180	1,301
Entomology/parasitology	1,342	1,306	1,244	1,240	1,181	1,173	1,171	1,193
Genetics	1,120	1,262	1,314	1,289	1,365	1,408	1,520	1,643
Microbio., immunology, & virology	4,446	4,372	4,452	4,773	4,827	4,872	4,936	5,008
Nutrition	4,314	4,321	4,288	4,228	4,259	4,268	4,251	4,245
Pathology	1,321	1,362	1,397	1,357	1,393	1,386	1,492	1,517
Pharmacology	2,107	2,078	2,072	2,124	2,267	2,352	2,432	2,545
Physiology	2,211	2,220	2,213	2,220	2,206	2,236	2,332	2,319
Zoology	2,135	2,083	2,113	2,034	2,088	2,109	2,196	2,203
Biosciences, n.e.c.	1,400	1,475	1,569	1,760	1,924	2,278	2,595	3,246
Psychology	41,173	41,417	42,750	44,127	46,003	48,678	51,791	53,820
Psychology, general	41	54	193	15,479	17,126	18,524	21,230	23,117
Clinical psychology	40,605	40,769	41,938	20,842	19,726	20,383	19,855	18,738
Psychology, n.e.c.	527	594	619	7,806	9,151	9,771	10,706	11,965
Social sciences	70,468	70,400	71,556	71,776	74,269	78,045	81,000	85,824
Agricultural economics	2,268	2,248	2,203	2,259	2,276	2,273	2,364	2,513
Anthropology (cultural & social)	5,631	5,805	5,835	5,945	6,128	6,494	6,729	7,129
Economics (except agricultural)	12,430	12,103	12,020	12,036	12,143	12,306	12,728	13,266
Geography	2,936	3,055	3,223	3,208	3,479	3,530	3,760	4,097
History and philosophy of science	272	266	294	288	304	331	337	360
Linguistics	3,055	3,109	3,282	3,243	3,286	3,404	3,425	3,288
Political science	27,012	27,251	27,601	27,859	29,291	30,595	31,887	33,770
Sociology	6,586	6,532	6,986	7,087	7,393	7,784	8,292	8,861
Sociology/anthropology	1,034	1,021	982	991	1,022	1,212	1,032	1,123
Social sciences, n.e.c.	9,244	9,010	9,130	8,860	8,947	10,116	10,446	11,417
Engineering, total	96,214	102,135	104,104	103,137	104,150	107,728	113,300	118,047
Aerospace engineering	2,538	2,804	3,015	3,223	3,454	3,866	4,052	4,036
Agricultural engineering	941	1,054	1,063	1,039	1,031	936	978	989
Biomedical engineering	1,373	1,549	1,689	1,755	1,919	2,130	2,233	2,479
Chemical engineering	7,150	7,012	7,111	6,618	6,460	6,735	7,127	7,415
Civil engineering	14,916	14,987	14,718	14,822	14,919	15,553	17,356	19,385
Electrical engineering	28,203	29,969	31,399	32,035	33,257	33,722	34,973	36,272
Engineering science	2,098	2,362	2,343	2,386	2,077	2,020	2,154	2,218
Industrial eng./management sci.	10,805	11,843	12,416	11,638	11,328	11,505	12,832	13,735
Mechanical engineering	14,157	15,713	16,366	16,186	16,212	16,788	17,647	18,768
Metallurgical/materials eng.	3,943	4,208	4,366	4,335	4,589	4,946	5,164	5,470
Mining engineering	489	512	513	489	418	437	489	479
Nuclear engineering	1,220	1,265	1,279	1,303	1,323	1,278	1,282	1,286
Petroleum engineering	782	747	818	742	665	670	705	737
Engineering, n.e.c.	7,599	8,110	7,008	6,566	6,498	7,142	6,308	4,778

See explanatory information, if any, and SOURCE(S) at end of table.

Table 6. Science and engineering graduate students in all institutions, by field: 1985-92

Page 2 of 2

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, health fields	46,411	47,871	48,655	50,085	52,623	55,919	59,384	63,784
Medical fields	9,280	9,227	9,730	10,110	10,243	10,962	11,564	12,470
Anesthesiology	75	102	107	201	277	310	443	594
Cardiology	3	3	0	0	0	0	2	8
Oncology/cancer research	66	69	81	89	104	113	156	200
Endocrinology	53	57	63	70	82	74	66	74
Gastroenterology	1	5	0	0	0	1	0	0
Hematology	4	9	7	6	4	4	4	5
Neurology	346	391	503	612	744	843	997	1,117
Obstetrics and gynecology	7	4	8	9	7	5	10	3
Ophthalmology	17	18	19	33	37	31	23	20
Otorhinolaryngology	5	6	8	6	9	4	3	0
Pediatrics	185	163	219	227	136	140	153	154
Preventive medicine/community health	7,279	7,222	7,556	7,678	7,687	8,246	8,371	8,737
Psychiatry	101	125	122	106	67	71	46	96
Pulmonary disease	4	3	3	4	2	0	0	0
Radiology	239	215	183	208	192	196	233	252
Surgery	56	52	67	75	81	81	84	82
Clinical medicine, n.e.c.	839	783	784	786	814	843	973	1,128
Other health fields	37,131	38,644	38,925	39,975	42,380	44,957	47,820	51,314
Dental sciences	833	947	1,062	1,083	1,004	956	1,016	1,067
Nursing	17,977	18,424	18,479	18,910	19,733	21,245	22,116	23,333
Pharmaceutical sciences	2,553	2,682	2,607	2,613	2,834	2,938	3,011	2,846
Speech pathology/audiology	7,986	7,957	7,497	7,668	8,088	8,510	9,121	10,017
Veterinary sciences	637	630	731	752	801	900	894	942
Health related, n.e.c.	7,145	8,004	8,549	8,949	9,920	10,408	11,662	13,109

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 7. Male science and engineering graduate students in all institutions, by field: 1985-92

Page 1 of 1

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	258,955	265,302	268,480	266,117	269,418	276,561	285,690	295,594
Total, science and engineering fields	247,975	254,039	256,476	254,382	257,161	263,858	272,243	281,202
Sciences, total	162,937	164,373	165,370	164,461	166,671	170,848	174,615	180,313
Physical sciences	24,474	25,385	25,614	25,465	25,817	26,053	26,219	26,651
Astronomy	563	568	602	591	649	645	657	683
Chemistry	13,513	13,713	13,645	13,108	13,150	13,240	13,135	13,383
Physics	10,175	10,862	11,134	11,557	11,789	11,943	12,147	12,292
Physical sciences, n.e.c.	223	242	233	209	229	225	280	293
Earth, atmospheric, & ocean sciences	11,606	11,215	10,708	10,188	9,900	9,997	10,178	10,685
Atmospheric sciences	807	782	784	777	734	744	778	848
Geosciences	7,810	7,463	6,834	6,368	6,089	5,772	5,572	5,690
Oceanography	1,471	1,461	1,493	1,388	1,482	1,552	1,540	1,571
Earth, atmos., & ocean sci., n.e.c.	1,518	1,509	1,597	1,655	1,595	1,929	2,288	2,576
Mathematical sciences	12,220	12,492	12,929	13,329	13,318	13,601	13,675	13,823
Computer sciences	22,145	23,423	23,989	23,972	24,432	26,180	26,566	27,998
Agricultural sciences	8,445	8,391	8,047	7,917	7,912	7,865	7,819	7,925
Biological sciences	26,258	26,360	26,362	26,357	26,692	27,008	27,694	28,898
Anatomy	569	560	578	598	598	541	550	538
Biochemistry	2,919	2,991	2,923	2,925	3,064	2,962	3,070	3,160
Biology	7,221	7,148	7,060	6,939	7,009	7,084	7,082	7,324
Biometry/epidemiology	640	666	746	768	738	874	920	1,037
Biophysics	331	410	450	443	493	478	515	549
Botany	1,993	2,014	1,854	1,814	1,754	1,652	1,619	1,640
Cell biology	911	1,044	1,199	1,233	1,290	1,435	1,528	1,687
Ecology	661	638	588	602	644	667	662	713
Entomology/parasitology	992	948	906	881	817	815	830	839
Genetics	597	665	673	660	675	681	761	799
Microbio., immunology, & virology	2,489	2,428	2,454	2,616	2,588	2,552	2,579	2,636
Nutrition	1,349	1,307	1,341	1,232	1,252	1,286	1,294	1,258
Pathology	758	800	802	795	809	791	845	838
Pharmacology	1,302	1,265	1,229	1,277	1,298	1,329	1,302	1,380
Physiology	1,375	1,365	1,378	1,357	1,313	1,303	1,366	1,367
Zoology	1,372	1,307	1,316	1,246	1,295	1,273	1,312	1,349
Biosciences, n.e.c.	779	804	865	971	1,055	1,285	1,459	1,784
Psychology	15,738	15,432	15,708	15,552	15,813	15,963	16,671	16,761
Social sciences	42,051	41,675	42,013	41,681	42,787	44,181	45,793	47,572
Agricultural economics	1,761	1,747	1,696	1,713	1,694	1,674	1,728	1,803
Anthropology (cultural & social)	2,510	2,460	2,482	2,499	2,548	2,694	2,776	2,888
Economics (except agricultural)	9,373	9,095	9,000	8,938	8,904	8,941	9,170	9,483
Geography	1,988	2,071	2,130	2,153	2,295	2,326	2,442	2,669
Linguistics	1,198	1,252	1,305	1,296	1,334	1,398	1,512	1,279
Political science	16,492	16,512	16,665	16,399	17,060	17,409	18,059	18,825
Sociology	3,087	2,972	3,144	3,248	3,396	3,503	3,731	3,784
Sociology/anthropology	496	482	472	443	454	506	464	509
Social sciences, other	5,146	5,084	5,119	4,992	5,102	5,730	5,911	6,332
Engineering, total	85,038	89,666	91,106	89,921	90,490	93,010	97,628	100,889
Aerospace engineering	2,375	2,604	2,791	2,996	3,214	3,579	3,727	3,688
Agricultural engineering	863	970	967	953	944	836	854	848
Biomedical engineering	1,082	1,203	1,292	1,316	1,450	1,587	1,649	1,865
Chemical engineering	6,146	5,973	5,957	5,543	5,431	5,589	5,870	6,020
Civil engineering	12,767	12,836	12,605	12,525	12,481	12,861	14,266	15,780
Electrical engineering	25,768	27,061	28,301	28,757	29,742	30,007	31,130	32,026
Engineering science	1,858	2,065	2,056	2,119	1,829	1,721	1,866	1,913
Industrial eng./management sci.	8,906	9,625	10,121	9,457	9,161	9,299	10,455	11,071
Mechanical engineering	13,146	14,554	15,070	14,774	14,814	15,349	16,143	17,068
Metallurgical/materials eng.	3,340	3,533	3,637	3,579	3,780	4,049	4,173	4,413
Nuclear engineering	1,113	1,142	1,151	1,176	1,182	1,123	1,105	1,103
Engineering, other	7,674	8,100	7,158	6,726	6,462	7,010	6,390	5,094
Total, health fields	10,980	11,263	12,004	11,735	12,257	12,703	13,447	14,392
Clinical fields	761	763	809	872	919	993	1,113	1,256
Dental sciences	646	736	777	788	713	677	717	737
Nursing	795	815	1,098	876	1,038	1,018	1,133	1,175
Pharmaceutical sciences	1,654	1,711	1,587	1,549	1,670	1,770	1,745	1,648
Preventive medicine/community health	2,961	3,041	3,377	3,180	2,908	3,207	3,232	3,497
Speech pathology/audiology	1,051	922	735	812	785	793	776	678
Veterinary sciences	401	394	453	452	470	512	528	536
Other health fields	2,711	2,881	3,168	3,206	3,754	3,733	4,203	4,865

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 8. Female science and engineering graduate students in all institutions, by field: 1985-92

Page 1 of 1

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	146,641	151,275	154,105	159,815	166,653	177,504	187,260	199,803
Total, science and engineering fields	111,210	114,667	117,454	121,465	126,287	134,288	141,323	150,411
Sciences, total	100,034	102,198	104,456	108,249	112,627	119,570	125,651	133,253
Physical sciences	6,507	6,863	7,116	7,497	7,802	8,082	8,580	8,845
Astronomy	108	121	120	140	140	165	172	186
Chemistry	4,787	5,024	5,174	5,464	5,662	5,861	6,253	6,521
Physics	1,497	1,577	1,673	1,751	1,868	1,925	1,993	1,972
Physical sciences, n.e.c.	115	141	149	142	132	131	162	166
Earth, atmospheric, & ocean sciences	3,985	3,995	3,814	3,879	3,930	4,198	4,542	4,924
Atmospheric sciences	157	179	168	163	178	185	190	241
Geosciences	2,484	2,356	2,164	2,095	1,963	1,922	2,011	2,069
Oceanography	610	667	634	645	725	781	846	959
Earth, atmos., & ocean sci., n.e.c.	734	793	848	976	1,064	1,310	1,495	1,655
Mathematical sciences	5,371	5,475	5,595	5,774	5,990	6,200	6,303	6,552
Computer sciences	7,457	7,752	7,912	8,081	7,888	8,169	8,222	8,398
Agricultural sciences	2,919	2,890	2,895	3,023	3,067	3,260	3,496	3,684
Biological sciences	19,943	20,513	20,539	21,325	22,278	23,082	24,181	25,539
Anatomy	424	413	438	458	480	455	501	493
Biochemistry	1,737	1,884	1,890	1,996	2,018	2,071	2,137	2,226
Biology	5,489	5,530	5,271	5,454	5,752	5,951	6,217	6,573
Biometry/epidemiology	720	768	810	914	984	997	1,112	1,332
Biophysics	110	137	141	149	162	164	182	202
Botany	1,195	1,135	1,151	1,122	1,090	1,068	1,056	1,050
Cell biology	518	672	765	845	944	1,120	1,281	1,406
Ecology	367	384	375	397	440	469	518	588
Entomology/parasitology	350	358	338	359	364	358	341	354
Genetics	523	597	641	629	690	727	759	844
Microbio., immunology, & virology	1,957	1,944	1,998	2,157	2,239	2,320	2,357	2,372
Nutrition	2,985	3,014	2,947	2,996	3,007	2,982	2,957	2,987
Pathology	563	562	595	562	584	595	647	679
Pharmacology	805	813	843	847	969	1,023	1,130	1,165
Physiology	836	855	835	863	893	933	966	952
Zoology	763	776	797	788	793	836	884	854
Biosciences, n.e.c.	621	671	704	789	869	1,013	1,136	1,462
Psychology	25,435	25,985	27,042	28,575	30,190	32,715	35,120	37,059
Social sciences	28,417	28,725	29,543	30,095	31,482	33,884	35,207	38,252
Agricultural economics	507	501	507	546	582	599	636	710
Anthropology (cultural & social)	3,121	3,345	3,353	3,446	3,580	3,800	3,953	4,241
Economics (except agricultural)	3,057	3,008	3,020	3,098	3,239	3,365	3,558	3,783
Geography	948	984	1,093	1,055	1,184	1,204	1,318	1,428
Linguistics	1,857	1,857	1,977	1,947	1,952	2,006	1,913	2,009
Political science	10,520	10,739	10,936	11,460	12,231	13,186	13,828	14,945
Sociology	3,499	3,560	3,842	3,839	3,997	4,281	4,561	5,077
Sociology/anthropology	538	539	510	548	566	708	568	614
Social sciences, other	4,370	4,192	4,305	4,156	4,149	4,717	4,872	5,445
Engineering, total	11,176	12,469	12,998	13,216	13,660	14,718	15,672	17,158
Aerospace engineering	163	200	224	227	240	287	325	348
Agricultural engineering	78	84	96	86	87	100	124	141
Biomedical engineering	291	346	397	439	469	543	584	614
Chemical engineering	1,004	1,039	1,154	1,075	1,029	1,146	1,257	1,395
Civil engineering	2,149	2,151	2,113	2,297	2,438	2,692	3,090	3,605
Electrical engineering	2,435	2,908	3,098	3,278	3,515	3,715	3,843	4,246
Engineering science	240	297	287	267	248	299	288	305
Industrial eng./management sci.	1,899	2,218	2,295	2,181	2,167	2,206	2,377	2,684
Mechanical engineering	1,011	1,159	1,298	1,412	1,398	1,439	1,504	1,700
Metallurgical/materials eng.	603	675	729	756	809	897	991	1,057
Nuclear engineering	107	123	128	127	141	155	177	183
Engineering, other	1,198	1,269	1,181	1,071	1,119	1,239	1,112	900
Total, health fields	35,431	36,608	36,651	38,350	40,366	43,216	45,937	49,392
Clinical fields	894	851	862	948	893	880	1,083	1,380
Dental sciences	187	211	285	295	291	279	299	330
Nursing	17,182	17,809	17,381	18,034	18,695	20,227	20,983	22,158
Pharmaceutical sciences	899	971	1,020	1,084	1,164	1,168	1,268	1,198
Preventive medicine/community health	4,318	4,181	4,179	4,498	4,779	5,039	5,139	5,240
Speech pathology/audiology	6,935	7,035	6,762	6,856	7,303	7,717	8,345	9,139
Veterinary sciences	236	236	278	300	331	386	366	406
Other health fields	4,780	5,514	5,884	6,355	6,910	7,518	8,456	9,581

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 9. Science and engineering graduate students in all institutions, by enrollment status, citizenship, and racial/ethnic background: 1985-92

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Enrollment status, citizenship, and racial/ethnic background	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total enrollment	405,596	416,577	422,585	425,932	436,071	454,065	472,950	495,397
Total U.S. citizens	325,576	329,222	330,328	328,551	334,019	346,921	359,910	381,732
Black, non-Hispanic	12,498	12,467	12,488	13,411	14,077	15,256	16,451	18,440
American Indian/Alaskan Native	875	892	948	1,098	1,073	1,277	1,368	1,528
Asian/Pacific Islander	12,987	13,839	15,713	16,446	17,101	18,754	20,020	24,175
Hispanic	10,164	10,188	10,549	10,990	11,329	12,176	13,100	14,713
White, non-Hispanic	260,208	265,387	266,946	268,117	270,934	282,911	290,218	303,194
Other or unknown	28,844	26,449	23,704	18,489	19,505	16,547	18,753	19,682
Non-U.S. citizens	80,020	87,355	92,257	97,381	102,052	107,144	113,040	113,685
Full-time enrollment	258,029	266,685	271,646	275,792	283,353	293,686	307,628	323,399
Total U.S. citizens	189,725	191,548	192,780	192,217	196,519	202,422	212,290	226,907
Black, non-Hispanic	6,437	6,422	6,469	7,027	7,618	8,113	8,872	10,158
American Indian/Alaskan Native	559	570	611	672	661	769	859	1,012
Asian/Pacific Islander	7,813	8,567	9,799	10,222	10,687	11,622	12,459	14,943
Hispanic	6,138	6,233	6,262	3,594	6,990	7,601	8,231	9,155
White, non-Hispanic	155,638	159,000	158,972	159,320	161,691	167,268	173,010	182,079
Other or unknown	13,140	10,756	10,667	8,382	8,872	7,049	8,859	9,560
Non-U.S. citizens	68,304	75,137	78,866	83,575	86,834	91,264	95,338	96,492
Part-time enrollment	147,567	149,892	150,939	150,140	152,718	160,379	165,322	171,998
Total U.S. citizens	135,851	137,674	137,548	136,334	137,500	144,499	147,620	154,825
Black, non-Hispanic	6,061	6,045	5,999	6,384	6,459	7,143	7,579	8,282
American Indian/Alaskan Native	316	322	337	426	412	508	509	516
Asian/Pacific Islander	5,174	5,272	5,914	6,224	6,414	7,132	7,561	9,232
Hispanic	4,026	3,955	4,287	4,396	4,339	4,575	4,869	5,558
White, non-Hispanic	104,570	106,387	107,974	108,797	109,243	115,643	117,208	121,115
Other or unknown	15,704	15,693	13,037	10,107	10,633	9,498	9,894	10,122
Non-U.S. citizens	11,716	12,218	13,391	13,806	15,218	15,880	17,702	17,173

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 10. Full-time science and engineering graduate students in all institutions, by field: 1985-92

Page 1 of 1

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	258,029	266,685	271,646	275,792	283,353	293,686	307,628	323,399
Total, science and engineering fields	234,495	243,108	247,520	250,966	257,155	265,760	277,351	290,993
Sciences, total	178,584	182,916	185,537	187,849	192,707	199,706	206,580	216,527
Physical sciences	26,669	27,764	28,414	28,574	29,207	29,497	30,109	30,730
Astronomy	635	654	681	705	762	790	810	840
Chemistry	15,580	15,997	16,235	16,088	16,272	16,377	16,722	16,990
Physics	10,287	10,957	11,304	11,638	12,040	12,198	12,432	12,745
Physical sciences, n.e.c.	167	156	194	143	133	132	145	155
Earth, atmospheric, & ocean sciences	11,458	11,347	10,543	10,305	10,138	10,377	10,518	11,150
Atmospheric sciences	872	855	824	829	810	828	859	959
Geosciences	7,703	7,384	6,666	6,310	5,983	5,801	5,692	5,889
Oceanography	1,562	1,694	1,651	1,629	1,799	1,934	1,991	2,133
Earth, atmos., & ocean sci., n.e.c.	1,321	1,414	1,402	1,537	1,546	1,814	1,976	2,169
Mathematical sciences	11,828	12,390	13,044	13,514	13,695	13,868	14,262	14,663
Computer sciences	13,624	15,035	15,308	15,088	15,558	16,729	16,652	17,617
Agricultural sciences	9,096	9,211	8,964	8,967	8,900	8,955	9,151	9,280
Biological sciences	37,086	37,889	38,359	39,301	40,459	41,028	42,789	44,518
Anatomy	891	893	929	973	999	907	961	961
Biochemistry	4,453	4,630	4,604	4,731	4,810	4,839	4,960	5,055
Biology	8,519	8,556	8,539	8,726	9,169	9,175	9,446	9,683
Biometry/epidemiology	996	1,048	1,166	1,213	1,211	1,231	1,431	1,627
Biophysics	381	449	468	544	610	605	679	728
Botany	2,717	2,763	2,596	2,556	2,456	2,333	2,291	2,308
Cell biology	1,408	1,655	1,886	2,023	2,177	2,485	2,716	2,956
Ecology	876	867	796	830	873	884	919	997
Entomology/parasitology	1,138	1,107	1,082	1,061	1,009	997	1,014	1,016
Genetics	1,057	1,171	1,208	1,187	1,254	1,297	1,412	1,530
Microbio., immunology, & virology	3,878	3,889	4,016	4,308	4,329	4,383	4,408	4,482
Nutrition	3,040	3,055	3,014	2,876	2,874	2,918	2,959	2,943
Pathology	1,003	1,034	1,093	1,084	1,126	1,108	1,149	1,209
Pharmacology	1,993	1,956	1,922	1,986	2,135	2,208	2,304	2,401
Physiology	1,986	2,005	1,996	2,008	2,057	2,076	2,163	2,162
Zoology	1,718	1,720	1,787	1,719	1,773	1,682	1,787	1,793
Biosciences, n.e.c.	1,034	1,111	1,277	1,476	1,597	1,920	2,190	2,687
Psychology	25,621	26,344	27,317	28,242	29,505	30,828	32,393	34,386
Social sciences	43,002	42,936	43,588	43,858	45,245	48,424	50,708	54,183
Agricultural economics	1,990	1,984	1,857	1,909	1,912	1,981	2,011	2,106
Anthropology (cultural & social)	3,916	4,061	4,108	4,276	4,411	4,807	5,077	5,323
Economics (except agricultural)	8,938	8,959	8,985	9,021	9,088	9,283	9,871	10,213
Geography	2,124	2,108	2,290	2,215	2,358	2,374	2,539	2,792
Linguistics	2,337	2,358	2,449	2,519	2,485	2,586	2,549	2,473
Political science	13,171	13,410	13,017	13,277	14,020	15,291	16,149	17,689
Sociology	4,649	4,601	5,033	5,090	5,273	5,680	5,886	6,328
Sociology/anthropology	565	584	560	566	633	782	691	741
Social sciences, other	5,312	4,891	5,289	4,985	5,085	5,660	5,933	6,518
Engineering, total	55,911	60,192	61,983	63,117	64,448	66,054	70,771	74,466
Aerospace engineering	1,994	2,154	2,372	2,533	2,772	3,010	3,325	3,308
Agricultural engineering	767	881	924	879	851	790	821	829
Biomedical engineering	1,129	1,294	1,392	1,455	1,611	1,798	1,921	2,110
Chemical engineering	5,546	5,594	5,674	5,359	5,282	5,443	5,788	5,943
Civil engineering	9,760	9,982	9,651	9,957	9,974	10,139	11,340	12,379
Electrical engineering	14,799	16,290	17,101	17,708	18,466	18,675	19,719	20,991
Engineering science	1,264	1,445	1,373	1,418	1,259	1,252	1,384	1,415
Industrial eng./management sci.	3,494	3,849	4,210	4,361	4,725	4,860	5,571	6,092
Mechanical engineering	8,875	9,789	10,230	10,428	10,464	10,816	11,580	12,425
Metallurgical/materials eng.	3,093	3,370	3,438	3,464	3,715	3,934	4,082	4,289
Nuclear engineering	1,030	1,059	1,044	1,105	1,112	1,080	1,080	1,084
Engineering, other	4,160	4,485	4,576	4,454	4,217	4,257	4,200	3,803
Total, health fields	23,534	23,577	24,126	24,826	26,198	27,926	30,277	32,406
Clinical fields	1,115	1,098	1,139	1,285	1,433	1,504	1,742	1,951
Dental sciences	743	834	914	928	856	827	875	944
Nursing	6,048	5,878	5,924	6,024	5,987	6,149	6,475	6,330
Pharmaceutical sciences	1,789	1,841	1,824	1,907	2,092	2,197	2,241	2,123
Preventive medicine/community health	4,125	4,075	4,162	4,224	4,213	4,508	4,397	4,830
Speech pathology/audiology	5,446	5,391	5,089	5,247	5,640	5,797	6,513	7,212
Veterinary sciences	515	506	592	608	668	709	717	754
Other health fields	3,753	3,954	4,482	4,605	5,309	6,235	7,317	8,282

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 11. Full-time science and engineering graduate students in all institutions, by field and source of major support: 1985-92

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Field and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields:								
Total, all sources	258,029	266,685	271,646	275,792	283,353	293,686	307,628	323,399
Federal, total	49,105	51,412	53,574	55,589	57,598	59,497	63,391	65,714
Dept of Defense	7,332	7,945	8,798	9,515	9,190	8,911	9,215	9,140
Dept of HHS, total	15,841	16,377	17,183	17,968	18,700	19,538	20,502	21,287
NIH	11,091	11,861	12,896	13,712	14,354	14,971	16,020	16,985
Other HHS	4,750	4,516	4,287	4,256	4,346	4,567	4,482	4,302
NSF	10,181	10,831	11,249	11,632	11,893	12,020	12,658	13,298
USDA	NA	NA	2,684	2,604	2,738	2,698	3,058	3,231
All other Federal	13,578	13,921	13,660	13,870	15,077	16,330	17,958	18,758
Institutional support	104,326	109,368	112,487	115,010	119,445	123,360	125,705	128,055
Other outside support, total	26,584	26,737	25,529	25,746	25,854	26,068	27,002	27,880
All other U.S.	18,799	19,062	18,346	18,778	19,143	19,555	20,376	21,452
Foreign	7,785	7,675	7,183	6,968	6,711	6,513	6,626	6,428
Self-support	78,014	79,168	80,056	79,447	80,456	84,761	91,530	101,750
Sciences, total:								
Total, all sources	178,584	182,916	185,537	187,849	192,707	199,706	206,580	216,527
Federal, total	31,586	32,894	33,959	35,174	36,727	37,871	40,175	41,834
Dept of Defense	3,276	3,594	3,967	4,298	3,940	3,759	3,821	3,857
Dept of HHS, total	10,651	11,265	11,934	12,674	13,356	13,809	14,655	15,239
NIH	9,557	10,248	10,899	11,749	12,264	12,667	13,431	14,059
Other HHS	1,094	1,017	1,035	925	1,092	1,142	1,224	1,180
NSF	7,450	7,656	7,712	7,773	8,077	8,090	8,306	8,671
USDA	NA	NA	2,380	2,376	2,482	2,403	2,718	2,795
All other Federal	8,204	8,277	7,966	8,053	8,872	9,810	10,675	11,272
Institutional support	80,236	83,216	85,141	87,156	89,739	92,715	93,472	95,438
Other outside support, total	15,276	14,975	14,198	14,360	14,339	14,320	14,824	15,643
All other U.S.	10,224	10,021	9,626	9,842	10,195	10,268	10,736	11,670
Foreign	5,052	4,954	4,572	4,518	4,144	4,052	4,088	3,973
Self-support	51,506	51,831	52,239	51,159	51,902	54,800	58,109	63,612
Physical sciences:								
Total, all sources	26,669	27,764	28,414	28,574	29,207	29,497	30,109	30,730
Federal, total	8,821	9,523	9,717	9,857	10,247	10,284	10,835	10,956
Dept of Defense	1,024	1,161	1,292	1,475	1,392	1,214	1,227	1,188
Dept of HHS, total	1,796	2,012	2,097	2,152	2,111	2,096	2,042	2,166
NIH	1,635	1,847	1,930	2,002	1,981	1,952	1,874	2,034
Other HHS	161	165	167	150	130	144	168	132
NSF	3,516	3,671	3,590	3,656	3,612	3,567	3,569	3,603
USDA	NA	NA	44	32	43	54	61	68
All other Federal	2,450	2,648	2,694	2,542	3,089	3,353	3,936	3,931
Institutional support	13,962	14,417	14,821	14,860	15,150	15,277	15,046	15,359
Other outside support, total	2,091	1,931	1,873	1,980	2,007	1,974	2,239	2,444
All other U.S.	1,656	1,588	1,596	1,662	1,751	1,716	1,928	2,112
Foreign	435	343	277	318	256	258	311	332
Self-support	1,795	1,893	2,003	1,877	1,803	1,962	1,989	1,971
Earth, atmospheric, & ocean sciences:								
Total, all sources	11,458	11,347	10,543	10,305	10,138	10,377	10,518	11,150
Federal, total	2,960	3,033	2,868	2,799	2,903	3,006	3,133	3,449
Dept of Defense	418	453	499	461	435	452	452	472
Dept of HHS, total	41	39	58	51	25	34	56	49
NIH	26	25	24	19	17	21	23	43
Other HHS	15	14	34	32	8	13	33	6
NSF	1,374	1,357	1,261	1,236	1,253	1,212	1,224	1,323
USDA	NA	NA	33	45	43	63	74	91
All other Federal	1,085	1,166	1,017	1,006	1,147	1,245	1,327	1,514
Institutional support	4,170	4,390	4,226	4,343	4,316	4,308	4,376	4,375
Other outside support, total	1,397	1,183	1,001	1,039	999	962	991	1,032
All other U.S.	1,034	869	674	675	658	687	702	787
Foreign	363	314	327	364	341	275	289	245
Self-support	2,931	2,741	2,448	2,124	1,920	2,101	2,018	2,294
Mathematical sciences:								
Total, all sources	11,828	12,390	13,044	13,514	13,695	13,868	14,262	14,663
Federal, total	935	999	1,090	1,190	1,221	1,335	1,505	1,499
Dept of Defense	386	432	438	513	395	367	376	386
Dept of HHS, total	21	24	30	28	36	49	69	68
NIH	18	19	24	25	28	39	64	61
Other HHS	3	5	6	3	8	10	5	7
NSF	321	357	436	463	475	491	452	457
USDA	NA	NA	16	20	22	23	21	25
All other Federal	194	168	170	166	293	405	587	563
Institutional support	8,111	8,485	8,836	9,132	9,385	9,490	9,532	9,547
Other outside support, total	549	598	548	616	585	572	600	642
All other U.S.	257	253	239	350	348	317	321	354
Foreign	292	345	309	266	237	255	279	288
Self-support	2,233	2,308	2,570	2,576	2,504	2,471	2,625	2,975

See explanatory information, if any, and SOURCE(S) at end of table.

Table 11. Full-time science and engineering graduate students in all institutions, by field and source of major support: 1985-92

Field and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Computer sciences:								
Total, all sources	13,824	15,035	15,308	15,088	15,558	16,729	16,652	17,617
Federal, total	1,633	1,887	2,075	2,216	2,320	2,409	2,528	2,635
Dept of Defense	858	1,036	1,132	1,214	1,164	1,129	1,131	1,194
Dept of HHS, total	20	45	62	62	57	68	66	101
NIH	20	43	61	62	50	59	60	98
Other HHS	0	2	1	0	7	9	6	3
NSF	500	524	619	632	777	819	896	956
USDA	NA	NA	17	10	7	14	8	6
All other Federal	251	279	245	298	315	379	427	378
Institutional support	4,284	4,516	4,967	5,096	5,306	5,640	5,433	5,583
Other outside support, total	1,357	1,548	1,260	1,293	1,258	1,264	1,318	1,359
All other U.S.	1,007	1,212	964	968	930	917	968	1,034
Foreign	350	336	296	325	328	347	350	325
Self-support	6,550	7,084	7,006	6,483	6,674	7,416	7,373	8,040
Agricultural sciences:								
Total, all sources	9,098	9,211	8,984	8,967	8,900	8,955	9,151	9,280
Federal, total	1,543	1,639	1,701	1,767	1,787	1,739	1,836	1,961
Dept of Defense	28	17	30	32	13	18	26	18
Dept of HHS, total	17	15	29	32	28	36	38	31
NIH	17	14	22	31	17	31	30	30
Other HHS	0	1	7	1	11	5	8	1
NSF	96	72	61	50	47	62	62	84
USDA	NA	NA	933	952	1,057	913	1,077	1,079
All other Federal	723	648	648	701	642	710	633	749
Institutional support	3,451	3,602	3,559	3,435	3,412	3,428	3,518	3,589
Other outside support, total	1,891	1,792	1,626	1,712	1,652	1,766	1,708	1,642
All other U.S.	1,013	921	817	930	1,005	1,120	1,066	1,064
Foreign	878	871	809	782	647	646	642	578
Self-support	2,211	2,178	2,078	2,053	2,049	2,022	2,089	2,088
Biological sciences:								
Total, all sources	37,088	37,889	38,359	39,301	40,459	41,028	42,789	44,518
Federal, total	10,695	11,132	11,851	12,485	13,270	13,657	14,517	15,141
Dept of Defense	220	189	248	283	254	222	223	234
Dept of HHS, total	7,382	7,879	8,329	8,907	9,603	9,923	10,663	11,032
NIH	7,025	7,512	8,003	8,640	9,250	9,556	10,211	10,562
Other HHS	357	367	326	267	353	367	452	470
NSF	1,072	1,079	1,135	1,121	1,254	1,215	1,282	1,339
USDA	NA	NA	984	995	960	977	1,074	1,112
All other Federal	1,211	1,166	1,155	1,179	1,199	1,320	1,275	1,424
Institutional support	17,034	17,632	17,658	17,940	18,486	18,892	19,266	19,765
Other outside support, total	3,248	3,062	3,135	3,409	3,463	3,557	3,753	3,878
All other U.S.	2,319	2,131	2,261	2,573	2,654	2,823	3,032	3,201
Foreign	929	931	874	836	809	734	721	677
Self-support	6,109	6,083	5,715	5,467	5,240	4,922	5,253	5,734
Psychology:								
Total, all sources	25,621	26,344	27,317	28,242	29,505	30,828	32,393	34,386
Federal, total	2,048	2,031	2,049	2,170	2,211	2,512	2,662	2,785
Dept of Defense	140	158	177	153	113	156	159	135
Dept of HHS, total	1,053	947	1,006	1,124	1,183	1,289	1,352	1,376
NIH	619	586	627	763	720	799	901	939
Other HHS	434	361	379	361	463	490	451	437
NSF	235	231	246	233	236	262	268	284
USDA	NA	NA	18	25	29	37	24	19
All other Federal	607	686	602	635	650	768	859	971
Institutional support	10,509	10,941	10,903	11,288	11,749	12,191	12,376	12,863
Other outside support, total	1,378	1,414	1,281	1,059	1,126	1,115	1,030	1,166
All other U.S.	1,321	1,344	1,219	995	1,071	1,057	974	1,109
Foreign	57	70	62	64	55	58	56	57
Self-support	11,686	11,958	13,084	13,725	14,419	15,010	16,325	17,572
Social sciences:								
Total, all sources	43,002	42,936	43,588	43,858	45,245	48,424	50,706	54,183
Federal, total	2,931	2,650	2,608	2,690	2,768	2,929	3,159	3,408
Dept of Defense	202	148	151	167	174	201	227	230
Dept of HHS, total	321	304	323	318	313	314	369	416
NIH	197	202	208	207	201	210	268	292
Other HHS	124	102	115	111	112	104	101	124
NSF	336	365	364	382	423	462	553	625
USDA	NA	NA	335	297	321	322	379	395
All other Federal	1,683	1,516	1,435	1,526	1,537	1,630	1,631	1,742
Institutional support	18,715	19,233	20,171	21,082	21,935	23,489	23,925	24,357
Other outside support, total	3,365	3,447	3,474	3,252	3,249	3,110	3,185	3,480
All other U.S.	1,617	1,703	1,856	1,689	1,778	1,631	1,745	2,009
Foreign	1,748	1,744	1,818	1,563	1,471	1,479	1,440	1,471
Self-support	17,991	17,606	17,335	16,854	17,293	18,896	20,437	22,938

See explanatory information, if any, and SOURCE(S) at end of table.

Table 11. Full-time science and engineering graduate students in all institutions, by field and source of major support: 1985-92

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Field and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Engineering, total:								
Total, all sources	55,911	60,192	61,983	63,117	64,448	66,054	70,771	74,466
Federal, total	11,265	12,379	13,129	14,027	14,265	14,728	16,095	16,475
Dept of Defense	3,776	4,116	4,590	4,970	4,808	4,699	4,896	4,885
Dept of HHS, total	525	536	629	628	729	792	841	963
NIH	455	449	515	555	644	689	751	857
Other HHS	70	87	114	73	85	103	90	106
NSF	2,688	3,130	3,486	3,810	3,768	3,881	4,296	4,558
USDA	NA	NA	256	197	210	237	280	367
All other Federal	4,112	4,403	4,168	4,422	4,750	5,119	5,782	5,702
Institutional support	18,395	20,232	21,385	21,575	22,778	23,319	24,606	24,805
Other outside support, total	9,653	10,196	9,813	10,098	10,094	10,368	10,599	10,474
All other U.S.	7,446	8,002	7,716	8,048	8,011	8,373	8,521	8,480
Foreign	2,207	2,194	2,097	2,050	2,083	1,995	2,078	1,994
Self-support	16,598	17,385	17,656	17,417	17,311	17,[illegible]	19,471	22,712
Chemical engineering:								
Total, all sources	5,546	5,594	5,674	5,359	5,282	5,443	5,788	5,943
Federal, total	1,289	1,394	1,501	1,452	1,459	1,529	1,598	1,650
Dept of Defense	90	101	150	145	130	98	134	122
Dept of HHS, total	53	69	78	83	87	121	132	180
NIH	52	67	70	79	87	119	128	160
Other HHS	1	2	8	4	0	2	4	20
NSF	622	652	692	683	654	679	664	682
USDA	NA	NA	24	7	13	27	16	38
All other Federal	515	566	557	534	575	604	652	628
Institutional support	2,022	2,048	2,055	2,021	1,976	2,105	2,282	2,251
Other outside support, total	1,342	1,301	1,325	1,279	1,278	1,241	1,228	1,191
All other U.S.	1,193	1,172	1,197	1,166	1,184	1,142	1,111	1,093
Foreign	149	129	128	113	94	99	117	98
Self-support	893	851	793	607	569	568	680	851
Civil engineering:								
Total, all sources	9,760	9,982	9,651	9,957	9,974	10,139	11,340	12,379
Federal, total	1,304	1,370	1,432	1,512	1,403	1,467	1,752	1,908
Dept of Defense	256	250	277	327	280	235	273	313
Dept of HHS, total	18	28	12	5	18	15	35	42
NIH	9	18	8	3	16	11	31	37
Other HHS	9	10	4	2	2	4	4	5
NSF	356	390	462	420	382	428	498	509
USDA	NA	NA	37	37	33	36	51	80
All other Federal	668	679	644	723	690	753	895	964
Institutional support	3,155	3,552	3,602	3,850	3,910	3,920	4,211	4,286
Other outside support, total	1,311	1,248	1,085	1,108	1,200	1,256	1,339	1,430
All other U.S.	875	808	695	695	723	826	918	984
Foreign	436	440	390	413	477	430	421	446
Self-support	3,990	3,812	3,532	3,487	3,461	3,496	4,038	4,755
Electrical engineering:								
Total, all sources	14,799	16,290	17,101	17,706	18,466	18,675	19,719	20,991
Federal, total	2,396	2,799	3,060	3,507	3,528	3,625	3,936	4,096
Dept of Defense	1,300	1,416	1,587	1,665	1,648	1,621	1,621	1,681
Dept of HHS, total	82	80	88	124	93	111	119	117
NIH	62	57	56	99	73	85	106	105
Other HHS	20	23	32	25	20	26	13	12
NSF	558	760	852	1,142	1,087	1,132	1,273	1,379
USDA	NA	NA	15	17	20	22	24	29
All other Federal	451	539	518	559	680	739	899	890
Institutional support	4,950	5,225	5,586	5,692	6,358	6,330	6,625	6,833
Other outside support, total	2,452	3,158	2,779	2,814	2,863	2,924	2,968	2,875
All other U.S.	1,865	2,536	2,198	2,364	2,369	2,414	2,456	2,418
Foreign	587	622	581	450	494	510	512	457
Self-support	5,001	5,108	5,676	5,693	5,717	5,796	6,190	7,187
Industrial engineering:								
Total, all sources	3,494	3,849	4,210	4,361	4,725	4,860	5,571	6,092
Federal, total	395	376	469	561	590	620	714	671
Dept of Defense	187	148	213	284	289	310	292	276
Dept of HHS, total	45	45	44	39	59	60	52	53
NIH	30	14	23	22	25	27	16	22
Other HHS	15	31	21	17	34	33	36	31
NSF	41	79	97	115	126	129	186	165
USDA	NA	NA	1	2	0	1	5	5
All other Federal	121	103	114	121	116	120	177	172
Institutional support	1,220	1,328	1,496	1,475	1,650	1,706	1,874	1,893
Other outside support, total	413	441	448	504	533	571	496	569
All other U.S.	311	359	370	392	387	415	362	431
Foreign	102	82	78	112	146	156	134	138
Self-support	1,466	1,704	1,795	1,821	1,952	1,963	2,487	2,959

See explanatory information, if any, and SOURCE(S) at end of table.

Table 11. Full-time science and engineering graduate students in all institutions, by field and source of major support: 1985-92

Field and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Mechanical engineering:								
Total, all sources	8,875	9,789	10,230	10,426	10,464	10,816	11,580	12,425
Federal, total	1,907	2,048	2,266	2,435	2,485	2,532	2,767	2,751
Dept of Defense	540	633	770	819	840	751	775	709
Dept of HHS, total	89	61	84	70	61	69	71	86
NIH	72	52	67	65	54	68	58	76
Other HHS	17	9	17	5	7	1	13	10
NSF	439	477	593	661	632	639	732	790
USDA	NA	NA	15	16	28	26	29	26
All other Federal	820	867	804	869	924	1,047	1,160	1,140
Institutional support	3,133	3,683	3,861	3,783	3,854	4,043	4,254	4,398
Other outside support, total	1,607	1,504	1,527	1,536	1,542	1,599	1,686	1,621
All other U.S.	1,354	1,249	1,289	1,303	1,327	1,383	1,415	1,406
Foreign	253	255	238	233	215	216	271	215
Self-support	2,228	2,554	2,576	2,672	2,583	2,642	2,873	3,655
Other engineering:								
Total, all sources	13,437	14,688	15,117	15,308	15,537	16,121	16,773	16,636
Federal, total	3,974	4,392	4,401	4,560	4,800	4,955	5,328	5,399
Dept of Defense	1,403	1,568	1,593	1,730	1,621	1,684	1,801	1,784
Dept of HHS, total	238	253	323	307	411	416	432	485
NIH	230	241	291	287	389	379	412	457
Other HHS	8	12	32	20	22	37	20	28
NSF	672	772	790	789	887	874	941	1,033
USDA	NA	NA	164	118	116	125	155	189
All other Federal	1,537	1,649	1,531	1,616	1,765	1,856	1,999	1,908
Institutional support	3,915	4,396	4,783	4,754	5,030	5,215	5,360	5,144
Other outside support, total	2,528	2,544	2,649	2,857	2,678	2,777	2,882	2,788
All other U.S.	1,848	1,878	1,967	2,128	2,021	2,193	2,259	2,148
Foreign	680	666	682	729	657	584	623	640
Self-support	3,020	3,356	3,284	3,137	3,029	3,174	3,203	3,305
Total, health fields:								
Total, all sources	23,534	23,577	24,126	24,826	26,198	27,926	30,277	32,406
Federal, total	6,274	6,139	6,486	6,388	6,606	6,898	7,121	7,405
Dept of Defense	280	235	241	247	442	453	498	398
Dept of HHS, total	4,665	4,576	4,620	4,666	4,615	4,937	5,006	5,085
NIH	1,079	1,164	1,482	1,408	1,446	1,615	1,838	2,069
Other HHS	3,586	3,412	3,138	3,258	3,169	3,322	3,168	3,016
NSF	43	45	51	49	48	49	56	69
USDA	NA	NA	48	31	46	58	60	69
All other Federal	1,262	1,241	1,526	1,395	1,455	1,401	1,501	1,784
Institutional support	5,695	5,920	5,961	6,279	6,928	7,326	7,627	7,812
Other outside support, total	1,655	1,566	1,518	1,288	1,421	1,380	1,579	1,763
All other U.S.	1,129	1,039	1,004	888	937	914	1,119	1,302
Foreign	526	527	514	400	484	466	460	461
Self-support	9,910	9,952	10,161	10,871	11,243	12,322	13,950	15,426

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: NA = Not available

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 12. Full-time science and engineering graduate students in all institutions, by type and source of major support: 1985-92

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Type and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all types:								
Total, all sources	258,029	266,685	271,646	275,792	283,353	293,686	307,628	323,399
Federal, total	49,105	51,412	53,574	55,589	57,598	59,497	63,391	65,714
Dept of Defense	7,332	7,945	8,798	9,515	9,190	8,911	9,215	9,140
Dept of HHS, total	15,841	16,377	17,183	17,968	18,700	19,538	20,502	21,287
NIH	11,091	11,861	12,896	13,712	14,354	14,971	16,020	16,985
Other HHS	4,750	4,516	4,287	4,256	4,346	4,567	4,482	4,302
NSF	10,181	10,831	11,249	11,632	11,893	12,020	12,658	13,298
USDA	NA	NA	2,684	2,604	2,738	2,698	3,058	3,231
All other Federal	13,578	13,921	13,660	13,870	15,077	16,330	17,958	18,758
Institutional support	104,326	109,368	112,487	115,010	119,445	123,360	125,705	128,055
Other outside support, total	26,584	26,737	25,529	25,746	25,854	26,068	27,002	27,880
All other U.S.	18,799	19,062	18,346	18,778	19,143	19,555	20,376	21,452
Foreign	7,785	7,675	7,183	6,968	6,711	6,513	6,626	6,428
Self-support	78,014	79,168	80,056	79,447	80,456	84,761	91,530	101,750
Fellowships:								
Total, all sources	22,609	23,013	22,127	22,540	23,602	25,332	27,012	28,832
Federal, total	4,423	4,600	4,450	4,608	5,221	6,370	7,549	7,832
Dept of Defense	263	294	349	360	418	597	706	647
Dept of HHS, total	864	816	848	864	916	1,029	1,125	1,303
NIH	621	644	686	690	691	838	929	1,102
Other HHS	243	172	162	174	225	191	196	201
NSF	1,398	1,512	1,489	1,587	1,780	2,109	2,266	2,367
USDA	NA	NA	151	95	108	110	102	125
All other Federal	1,748	1,812	1,613	1,702	2,001	2,525	3,350	3,390
Institutional support	11,180	11,664	11,589	11,950	12,440	13,013	13,292	14,455
Other outside support, total	7,006	6,749	6,088	5,982	5,941	5,949	6,171	6,545
All other U.S.	4,147	4,011	3,699	3,438	3,600	3,701	3,852	4,098
Foreign	2,859	2,738	2,389	2,544	2,341	2,248	2,319	2,447
Self-support	0	0	0	0	0	0	0	0
Traineeships:								
Total, all sources	13,691	13,539	14,043	14,424	14,537	15,236	15,376	15,401
Federal, total	8,973	8,702	8,952	8,717	8,694	9,253	9,847	10,017
Dept of Defense	49	79	137	133	114	113	124	93
Dept of HHS, total	7,624	7,400	7,351	7,284	7,090	7,635	7,847	7,895
NIH	4,074	3,933	4,230	4,110	4,011	4,386	4,809	4,945
Other HHS	3,550	3,467	3,121	3,174	3,079	3,249	3,038	2,950
NSF	56	27	83	68	84	47	82	109
USDA	NA	NA	87	44	49	57	37	31
All other Federal	1,173	1,139	1,294	1,188	1,357	1,401	1,557	1,889
Institutional support	3,720	3,884	4,179	4,742	4,922	5,170	4,928	4,560
Other outside support, total	998	953	912	965	921	813	801	824
All other U.S.	700	733	656	723	645	575	618	645
Foreign	298	220	256	242	276	238	183	179
Self-support	0	0	0	0	0	0	0	0
Research assistantships:								
Total, all sources	61,041	66,080	70,238	74,546	79,073	80,682	85,065	87,608
Federal, total	30,442	32,755	34,993	36,760	38,569	38,481	40,780	42,295
Dept of Defense	4,195	4,646	5,617	5,994	5,879	5,371	5,492	5,668
Dept of HHS, total	6,878	7,695	8,440	9,343	10,237	10,411	11,013	11,464
NIH	6,125	6,984	7,614	8,559	9,306	9,409	9,929	10,448
Other HHS	753	711	826	784	931	1,002	1,084	1,016
NSF	8,559	9,088	9,488	9,820	9,868	9,700	10,152	10,625
USDA	NA	NA	2,325	2,313	2,458	2,407	2,799	2,945
All other Federal	8,991	9,364	9,123	9,290	10,127	10,592	11,324	11,593
Institutional support	20,409	23,031	25,018	26,540	28,778	30,099	31,387	31,707
Other outside support, total	10,190	10,274	10,227	11,246	11,726	12,102	12,898	13,606
All other U.S.	9,640	9,686	9,632	10,628	11,051	11,373	12,074	12,790
Foreign	550	588	595	618	675	729	824	816
Self-support	0	0	0	0	0	0	0	0
Teaching assistantships:								
Total, all sources	61,923	62,609	62,926	63,177	64,474	65,123	65,390	65,728
Federal, total	561	497	444	504	490	609	477	644
Dept of Defense	0	0	0	0	0	0	0	0
Dept of HHS, total	97	110	151	143	143	121	112	215
NIH	58	82	123	117	129	97	90	187
Other HHS	39	28	28	26	14	24	22	28
NSF	43	75	27	58	66	86	75	97
USDA	NA	NA	16	44	33	44	33	27
All other Federal	381	279	250	259	248	358	257	305
Institutional support	60,846	61,584	62,005	62,187	63,430	63,994	64,341	64,513
Other outside support, total	516	528	477	486	554	520	572	571
All other U.S.	516	528	477	486	554	520	572	571
Foreign	0	0	0	0	0	0	0	0
Self-support	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE(S) at end of table.

Table 12. Full-time science and engineering graduate students in all institutions, by type and source of major support: 1985-92

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Type and source of major support	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Other types of support:								
Total, all sources	98,765	101,464	102,312	101,105	101,667	107,313	114,785	125,830
Federal, total	4,706	4,858	4,735	5,000	4,624	4,784	4,938	4,926
Dept of Defense	2,825	2,926	2,695	3,028	2,779	2,830	2,893	2,732
Dept of HHS, total	378	356	393	334	314	342	405	410
NIH	213	218	243	236	217	241	263	303
Other HHS	165	138	150	98	97	101	142	107
NSF	125	129	162	99	95	78	83	100
USDA	NA	NA	105	108	92	80	87	103
All other Federal	1,285	1,327	1,380	1,431	1,344	1,454	1,470	1,581
Institutional support	8,171	9,205	9,696	9,591	9,875	11,084	11,757	12,820
Other outside support, total	7,874	8,233	7,825	7,067	6,712	6,684	6,560	6,334
All other U.S.	3,796	4,104	3,882	3,503	3,293	3,386	3,260	3,348
Foreign	4,078	4,129	3,943	3,564	3,419	3,298	3,300	2,986
Self-support	78,014	79,168	80,056	79,447	80,456	84,761	91,530	101,750

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: NA = Not available

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 13. Full-time science and engineering graduate students with U.S. citizenship in all institutions, by field: 1985-92

Page 1 of 1

Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	189,725	191,548	192,780	192,217	196,519	202,422	212,290	226,907
Total, science and engineering fields	168,737	170,670	171,423	170,462	173,627	178,071	185,785	198,198
Sciences, total	136,916	137,435	137,475	136,882	139,510	143,548	148,708	157,984
Physical sciences	18,186	18,266	18,386	18,090	18,068	17,810	18,210	18,802
Astronomy	485	494	509	545	604	603	598	621
Chemistry	11,485	11,484	11,295	10,764	10,547	10,241	10,372	10,689
Physics	6,072	6,157	6,410	6,674	6,815	6,866	7,132	7,379
Physical sciences, n.e.c.	144	131	172	107	102	100	108	113
Earth, atmospheric, & ocean sciences	9,767	9,450	8,575	8,124	7,812	7,920	7,921	8,461
Atmospheric sciences	676	649	605	598	575	564	570	664
Geosciences	6,758	6,365	5,565	5,115	4,704	4,439	4,285	4,368
Oceanography	1,250	1,304	1,295	1,192	1,277	1,402	1,427	1,570
Earth, atmos., & ocean sci., n.e.c.	1,083	1,132	1,110	1,219	1,256	1,515	1,639	1,859
Mathematical sciences	7,004	7,245	7,550	7,740	7,710	7,962	8,383	8,918
Computer sciences	8,293	8,909	8,841	8,383	8,577	8,747	8,478	8,996
Agricultural sciences	6,743	6,649	6,336	6,327	6,266	6,093	6,294	6,452
Biological sciences	30,777	30,723	30,350	30,308	30,446	30,346	31,189	32,694
Anatomy	800	772	776	793	784	705	720	736
Biochemistry	3,480	3,537	3,392	3,401	3,301	3,207	3,240	3,378
Biology	7,431	7,308	7,185	7,218	7,474	7,386	7,597	7,785
Biometry/epidemiology	823	826	899	912	907	889	983	1,139
Biophysics	288	329	343	385	402	407	433	479
Botany	2,126	2,052	1,858	1,718	1,635	1,518	1,450	1,492
Cell biology	1,217	1,380	1,553	1,618	1,700	1,950	2,097	2,257
Ecology	776	763	686	708	740	733	769	864
Entomology/parasitology	904	855	767	775	718	699	679	712
Genetics	891	986	964	923	954	1,004	1,104	1,184
Microbio., immunology, & virology	3,225	3,144	3,208	3,356	3,259	3,214	3,215	3,338
Nutrition	2,115	2,150	2,047	1,902	1,876	1,844	1,821	1,849
Pathology	815	831	848	840	838	813	810	866
Pharmacology	1,743	1,638	1,543	1,544	1,626	1,641	1,672	1,724
Physiology	1,721	1,686	1,646	1,561	1,507	1,495	1,525	1,538
Zoology	1,540	1,532	1,584	1,458	1,504	1,397	1,473	1,498
Biosciences, n.e.c.	882	954	1,071	1,214	1,221	1,444	1,601	1,855
Psychology	24,460	25,174	26,102	26,913	28,164	29,332	30,774	32,725
Social sciences	31,686	31,019	31,335	30,999	32,467	35,338	37,459	40,938
Agricultural economics	1,222	1,205	1,118	1,037	996	1,031	1,057	1,128
Anthropology (cultural & social)	3,471	3,525	3,526	3,625	3,756	4,111	4,362	4,606
Economics (except agricultural)	4,942	4,876	4,750	4,545	4,587	4,654	5,099	5,421
Geography	1,764	1,724	1,865	1,808	1,932	1,942	2,129	2,365
Linguistics	1,394	1,397	1,497	1,525	1,453	1,518	1,497	1,521
Political science	10,569	10,462	10,114	10,324	11,320	12,556	13,317	14,822
Sociology	3,444	3,358	3,698	3,667	3,896	4,297	4,585	5,029
Sociology/anthropology	437	460	434	442	499	639	571	627
Social sciences, other	4,443	4,012	4,333	4,026	4,028	4,590	4,842	5,417
Engineering, total	31,821	33,235	33,948	33,580	34,117	34,523	37,077	40,214
Aerospace engineering	1,258	1,343	1,559	1,502	1,757	1,870	2,201	2,244
Agricultural engineering	414	457	478	408	381	329	331	373
Biomedical engineering	935	1,014	1,016	1,024	1,035	1,203	1,255	1,443
Chemical engineering	3,337	3,412	3,362	2,987	2,677	2,679	2,811	3,011
Civil engineering	5,290	5,311	5,104	5,215	5,104	5,383	6,149	7,025
Electrical engineering	8,137	8,572	9,002	9,295	9,723	9,652	9,958	10,591
Engineering science	795	854	782	803	702	745	774	802
Industrial eng./management sci.	1,890	2,073	2,168	2,256	2,452	2,421	2,747	3,114
Mechanical engineering	4,858	5,218	5,559	5,305	5,617	5,757	6,092	6,871
Metallurgical/materials eng.	1,805	1,854	1,829	1,804	1,887	1,986	2,068	2,291
Nuclear engineering	600	614	594	644	628	577	590	611
Engineering, other	2,502	2,513	2,495	2,359	2,174	1,921	2,101	1,838
Total, health fields	20,988	20,878	21,357	21,755	22,892	24,351	26,505	28,709
Clinical fields	930	904	934	1,085	1,172	1,207	1,411	1,593
Dental sciences	589	653	767	776	689	643	652	722
Nursing	5,882	5,718	5,761	5,841	5,817	5,950	6,223	6,115
Pharmaceutical sciences	1,142	1,145	1,131	1,093	1,182	1,232	1,254	1,114
Preventive medicine/community health	3,326	3,264	3,337	3,350	3,334	3,531	3,436	3,989
Speech pathology/audiology	5,224	5,141	4,858	4,973	5,357	5,506	6,194	6,886
Veterinary sciences	382	368	439	445	479	508	494	533
Other health fields	3,513	3,685	4,130	4,212	4,862	5,774	6,841	7,757

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 14. Full-time science and engineering graduate students without U.S. citizenship in all institutions, by field: 1985-92

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Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	68,304	75,137	78,866	83,575	86,834	91,264	95,338	96,492
Total, science and engineering fields	65,758	72,438	76,097	80,504	83,528	87,689	91,566	92,795
Sciences, total	41,668	45,481	48,062	50,967	53,197	56,158	57,872	58,543
Physical sciences	8,483	9,498	10,028	10,484	11,139	11,687	11,899	11,928
Astronomy	150	160	172	160	158	187	212	219
Chemistry	4,095	4,513	4,940	5,324	5,725	6,136	6,350	6,301
Physics	4,215	4,800	4,894	4,964	5,225	5,332	5,300	5,366
Physical sciences, n.e.c.	23	25	22	36	31	32	37	42
Earth, atmospheric, & ocean sciences	1,691	1,897	1,968	2,181	2,326	2,457	2,597	2,689
Atmospheric sciences	196	206	219	231	235	264	289	295
Geosciences	945	1,019	1,101	1,195	1,279	1,362	1,407	1,521
Oceanography	312	390	356	437	522	532	564	563
Earth, atmos., & ocean sci., n.e.c.	238	282	292	318	290	299	337	310
Mathematical sciences	4,824	5,145	5,494	5,774	5,985	5,906	5,879	5,745
Computer sciences	5,531	6,126	6,467	6,705	6,981	7,982	8,174	8,621
Agricultural sciences	2,353	2,562	2,628	2,640	2,634	2,862	2,857	2,828
Biological sciences	6,309	7,166	8,009	8,995	10,013	10,682	11,600	11,824
Anatomy	91	121	153	180	215	202	241	225
Biochemistry	973	1,093	1,212	1,330	1,509	1,632	1,720	1,677
Biology	1,088	1,248	1,354	1,508	1,695	1,789	1,849	1,898
Biometry/epidemiology	173	222	267	301	304	342	448	488
Biophysics	93	120	125	179	208	198	246	249
Botany	591	711	738	838	821	815	841	816
Cell biology	189	275	333	405	477	535	619	699
Ecology	100	104	110	122	133	151	150	133
Entomology/parasitology	234	252	295	286	291	298	335	304
Genetics	166	205	244	264	300	293	308	346
Microbio., immunology, & virology	653	725	808	952	1,070	1,149	1,193	1,144
Nutrition	925	905	967	974	998	1,074	1,138	1,094
Pathology	188	203	245	244	288	295	339	343
Pharmacology	250	318	379	442	509	567	632	677
Physiology	265	319	350	447	550	581	638	624
Zoology	178	188	223	261	269	285	314	295
Biosciences, n.e.c.	152	157	206	262	376	476	589	812
Psychology	1,161	1,170	1,215	1,329	1,341	1,496	1,619	1,661
Social sciences	11,316	11,917	12,253	12,859	12,778	13,086	13,247	13,247
Agricultural economics	768	759	739	872	916	930	954	978
Anthropology (cultural & social)	445	536	582	651	655	696	715	717
Economics (except agricultural)	3,996	4,083	4,235	4,476	4,501	4,629	4,772	4,792
Geography	360	384	425	407	426	432	410	427
Linguistics	943	961	952	994	1,012	1,068	1,052	952
Political science	2,602	2,948	2,903	2,953	2,700	2,735	2,832	2,867
Sociology	1,205	1,243	1,335	1,423	1,377	1,383	1,301	1,299
Sociology/anthropology	128	124	126	124	134	143	120	114
Social sciences, other	869	879	956	959	1,057	1,070	1,091	1,101
Engineering, total	24,090	26,957	28,035	29,537	30,331	31,531	33,694	34,252
Aerospace engineering	736	811	813	1,031	1,015	1,140	1,124	1,062
Agricultural engineering	353	424	446	473	490	461	490	456
Biomedical engineering	194	280	376	431	576	595	666	667
Chemical engineering	2,209	2,182	2,312	2,392	2,605	2,764	2,977	2,932
Civil engineering	4,470	4,671	4,547	4,742	4,870	4,756	5,191	5,354
Electrical engineering	6,662	7,718	8,099	8,411	8,743	9,023	9,761	10,400
Engineering science	469	591	591	615	557	507	590	613
Industrial eng./management sci.	1,604	1,776	2,042	2,105	2,273	2,439	2,824	2,978
Mechanical engineering	4,017	4,571	4,671	5,121	4,847	5,059	5,488	5,554
Metallurgical/materials eng.	1,288	1,516	1,607	1,660	1,828	1,948	1,994	1,998
Nuclear engineering	430	445	450	461	484	503	490	473
Engineering, other	1,658	1,972	2,061	2,095	2,043	2,336	2,099	1,765
Total, health fields	2,546	2,699	2,769	3,071	3,306	3,575	3,772	3,697
Clinical fields	185	194	205	220	261	297	331	358
Dental sciences	154	181	147	152	167	184	223	222
Nursing	166	160	163	183	170	199	252	215
Pharmaceutical sciences	647	696	693	814	910	965	987	1,009
Preventive medicine/community health	799	811	825	874	879	977	981	841
Speech pathology/audiology	222	250	231	274	283	291	319	326
Veterinary sciences	133	138	153	161	189	201	223	221
Other health fields	240	269	352	393	447	461	476	505

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 15. Part-time science and engineering graduate students in all institutions, by field: 1985-92

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Field	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	147,567	149,892	150,939	150,140	152,718	160,379	165,322	171,998
Total, science and engineering fields	124,690	125,598	126,410	124,881	126,293	132,386	136,215	140,620
Sciences, total	84,387	83,655	84,289	84,861	86,591	90,712	93,686	97,039
Physical sciences	4,312	4,484	4,316	4,388	4,412	4,638	4,690	4,766
Astronomy	36	35	41	26	27	20	19	29
Chemistry	2,720	2,740	2,584	2,484	2,540	2,724	2,666	2,914
Physics	1,385	1,482	1,503	1,670	1,617	1,670	1,708	1,519
Physical sciences, n.e.c.	171	227	188	208	228	224	297	304
Earth, atmospheric, & ocean sciences	4,133	3,863	3,979	3,762	3,692	3,818	4,202	4,459
Atmospheric sciences	92	106	128	111	102	101	109	130
Geosciences	2,591	2,435	2,332	2,153	2,069	1,893	1,891	1,870
Oceanography	519	434	476	404	408	399	395	397
Earth, atmos., & ocean sci., n.e.c.	931	888	1,043	1,094	1,113	1,425	1,807	2,062
Mathematical sciences	5,763	5,577	5,480	5,589	5,613	5,933	5,716	5,712
Computer sciences	15,778	16,140	16,593	16,965	16,762	17,620	18,136	18,779
Agricultural sciences	2,268	2,070	1,978	1,973	2,079	2,170	2,164	2,329
Biological sciences	9,115	8,984	8,542	8,381	8,511	9,062	9,086	9,919
Anatomy	102	80	87	83	79	89	90	70
Biochemistry	203	245	209	190	272	214	247	331
Biology	4,191	4,122	3,792	3,667	3,592	3,860	3,853	4,214
Biometry/epidemiology	364	386	390	469	511	640	601	742
Biophysics	60	98	123	48	45	37	18	23
Botany	471	386	409	380	388	387	384	382
Cell biology	23	61	78	55	57	70	93	137
Ecology	152	155	167	169	211	252	261	304
Entomology/parasitology	204	199	182	179	172	176	157	177
Genetics	63	91	106	102	111	111	108	113
Microbio., immunology, & virology	568	503	436	465	498	509	528	526
Nutrition	1,274	1,266	1,274	1,352	1,385	1,350	1,292	1,302
Pathology	318	328	304	273	267	278	343	308
Pharmacology	114	122	150	138	132	144	128	144
Physiology	225	215	217	212	149	160	169	157
Zoology	417	363	326	315	315	427	409	410
Biosciences, n.e.c.	366	364	292	284	327	358	405	579
Psychology	15,552	15,073	15,433	15,885	16,498	17,850	19,398	19,434
Social sciences	27,466	27,464	27,968	27,918	29,024	29,621	30,294	31,641
Agricultural economics	278	284	346	350	364	312	353	407
Anthropology (cultural & social)	1,715	1,744	1,727	1,669	1,717	1,687	1,652	1,806
Economics (except agricultural)	3,492	3,144	3,035	3,015	3,055	3,023	2,857	3,053
Geography	812	947	933	993	1,121	1,156	1,221	1,305
Linguistics	718	751	833	724	821	818	876	815
Political science	13,841	13,841	14,584	14,582	15,271	15,304	15,738	16,081
Sociology	1,937	1,931	1,953	1,997	2,120	2,104	2,406	2,533
Sociology/anthropology	469	437	422	425	389	430	341	382
Social sciences, other	4,204	4,385	4,135	4,163	4,166	4,787	4,850	5,259
Engineering, total	40,303	41,943	42,121	40,020	39,702	41,674	42,529	43,581
Aerospace engineering	544	650	643	690	682	856	727	730
Agricultural engineering	174	173	139	160	180	146	157	160
Biomedical engineering	244	255	297	300	308	332	312	369
Chemical engineering	1,604	1,418	1,437	1,259	1,178	1,292	1,339	1,472
Civil engineering	5,156	5,005	5,067	4,865	4,945	5,414	6,016	7,006
Electrical engineering	13,404	13,679	14,298	14,329	14,791	15,047	15,254	15,281
Engineering science	834	917	970	968	818	768	790	803
Industrial eng./management sci.	7,311	7,994	8,206	7,277	6,603	6,645	7,261	7,643
Mechanical engineering	5,282	5,924	6,136	5,760	5,748	5,972	6,067	6,343
Metallurgical/materials eng.	850	838	930	871	874	1,012	1,102	1,181
Nuclear engineering	190	208	235	198	211	198	202	202
Engineering, other	4,710	4,884	3,763	3,343	3,384	3,992	3,302	2,391
Total, health fields	22,877	24,294	24,529	25,259	26,425	27,993	29,107	31,378
Clinical fields	540	516	532	535	379	369	454	665
Dental sciences	90	113	148	155	148	129	141	123
Nursing	11,929	12,546	12,555	12,886	13,746	15,096	15,641	17,003
Pharmaceutical sciences	764	841	783	706	742	741	770	723
Preventive medicine/community health	3,154	3,147	3,394	3,454	3,474	3,738	3,974	3,907
Speech pathology/audiology	2,540	2,566	2,408	2,421	2,448	2,713	2,608	2,805
Veterinary sciences	122	124	139	146	133	191	177	188
Other health fields	3,738	4,441	4,570	4,956	5,355	5,016	5,342	5,964

1/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1985 through 1987. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 16. Science and engineering graduate students in doctorate-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	353,844	364,460	370,112	374,275	381,520	394,794	409,361	427,792
Total, science and engineering fields	314,844	324,005	329,215	331,976	336,971	347,359	359,777	374,781
Sciences, total	225,102	228,915	232,470	235,772	240,270	248,233	255,558	266,489
Physical sciences	29,351	30,504	31,068	31,296	31,841	32,387	32,883	33,611
Astronomy	671	689	722	731	789	810	829	869
Chemistry	17,185	17,624	17,707	17,508	17,719	18,038	18,279	18,799
Physics	11,303	11,953	12,391	12,845	13,145	13,340	13,559	13,734
Physical sciences, n.e.c.	192	238	248	212	188	199	216	209
Earth, atmospheric, & ocean sciences	14,302	14,080	13,408	12,959	12,742	13,027	13,355	13,964
Atmospheric sciences	951	956	948	929	900	925	956	1,076
Geosciences	9,572	9,220	8,425	7,925	7,591	7,218	7,072	7,233
Oceanography	1,984	2,027	2,022	1,926	2,070	2,198	2,266	2,393
Earth, atmos., & ocean sci., n.e.c.	1,795	1,877	2,013	2,179	2,181	2,686	3,061	3,262
Mathematical sciences	15,238	15,645	16,186	16,798	16,844	17,210	17,524	17,890
Mathematics & applied mathematics	13,284	13,478	13,880	14,391	14,488	14,704	14,938	15,130
Statistics	1,954	2,167	2,306	2,407	2,356	2,506	2,586	2,760
Computer sciences	23,380	24,740	25,615	25,972	26,063	27,428	27,548	29,042
Agricultural sciences	10,664	10,627	10,277	10,242	10,296	10,387	10,587	10,891
Biological sciences	42,121	42,966	43,126	44,022	45,118	46,200	47,939	50,223
Anatomy	993	973	1,016	1,056	1,078	996	1,051	1,031
Biochemistry	4,602	4,820	4,762	4,887	5,041	5,017	5,166	5,342
Biology	9,489	9,663	9,425	9,559	9,828	10,022	10,318	10,814
Biometry/epidemiology	1,360	1,434	1,556	1,682	1,722	1,871	2,031	2,369
Biophysics	441	547	591	592	655	642	697	751
Botany	3,160	3,101	2,960	2,892	2,806	2,669	2,625	2,627
Cell biology	1,429	1,716	1,964	2,078	2,234	2,555	2,809	3,093
Ecology	978	966	899	934	1,012	1,042	1,079	1,155
Entomology/parasitology	1,342	1,306	1,244	1,240	1,181	1,173	1,171	1,193
Genetics	1,075	1,219	1,273	1,247	1,321	1,364	1,478	1,603
Microbio., immunology, & virology	4,376	4,312	4,388	4,725	4,786	4,829	4,898	4,968
Nutrition	3,977	3,970	3,947	3,892	3,889	3,958	3,927	3,857
Pathology	1,274	1,297	1,341	1,300	1,327	1,319	1,421	1,440
Pharmacology	2,105	2,076	2,071	2,123	2,265	2,352	2,432	2,545
Physiology	2,211	2,220	2,213	2,220	2,206	2,236	2,332	2,319
Zoology	2,103	2,065	2,097	2,022	2,074	2,096	2,173	2,181
Biosciences, n.e.c.	1,206	1,281	1,379	1,573	1,693	2,059	2,331	2,935
Psychology	30,434	30,562	31,480	32,443	33,445	34,746	36,576	37,698
Psychology, general	41	47	166	10,578	11,792	12,493	14,171	15,397
Clinical psychology	29,898	29,956	30,726	15,151	13,705	14,028	13,367	12,978
Psychology, n.e.c.	495	559	588	6,714	7,948	8,225	9,038	9,323
Social sciences	59,612	59,791	61,310	62,040	63,921	66,848	69,146	73,170
Agricultural economics	2,200	2,184	2,152	2,209	2,227	2,232	2,311	2,445
Anthropology (cultural & social)	5,344	5,550	5,575	5,689	5,867	6,210	6,418	6,804
Economics (except agricultural)	11,307	11,148	11,137	11,205	11,294	11,500	11,837	12,273
Geography	2,508	2,558	2,683	2,587	2,801	2,902	3,108	3,422
History and philosophy of science	272	266	294	288	304	331	337	360
Linguistics	2,838	2,858	2,990	2,916	2,976	3,114	3,135	2,941
Political science	21,531	21,881	22,535	22,482	23,499	24,405	25,491	27,081
Sociology	5,929	5,848	6,267	6,372	6,593	6,849	7,139	7,612
Sociology/anthropology	906	904	882	912	946	1,125	957	1,046
Social sciences, n.e.c.	6,777	6,594	6,815	7,400	7,414	8,180	8,413	9,186
Engineering, total	89,742	95,090	96,745	96,204	96,701	99,126	104,219	108,292
Aerospace engineering	2,506	2,771	2,980	3,186	3,387	3,775	3,985	3,999
Agricultural engineering	941	1,054	1,063	1,039	1,031	936	978	969
Biomedical engineering	1,317	1,481	1,613	1,676	1,853	2,067	2,185	2,427
Chemical engineering	6,987	6,834	6,934	6,479	6,346	6,595	6,971	7,233
Civil engineering	14,168	14,119	13,576	13,796	13,973	14,470	16,016	17,727
Electrical engineering	26,569	28,055	29,315	29,921	30,430	30,416	31,586	32,575
Engineering science	1,838	2,128	2,111	2,167	2,058	2,002	2,124	2,185
Industrial eng./management sci.	9,811	10,791	11,413	10,628	10,111	10,031	11,265	12,178
Mechanical engineering	13,306	14,664	15,272	15,080	15,059	15,523	16,481	17,499
Metallurgical/materials eng.	3,823	4,077	4,244	4,227	4,469	4,808	5,010	5,281
Mining engineering	463	487	484	450	388	409	475	468
Nuclear engineering	1,220	1,265	1,279	1,303	1,323	1,278	1,282	1,286
Petroleum engineering	752	726	790	711	651	656	694	721
Engineering, n.e.c.	6,041	6,638	5,671	5,541	5,622	6,160	5,147	3,724

See explanatory information, if any, and SOURCE(S) at end of table.

Table 16. Science and engineering graduate students in doctorate-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, health fields	39,000	40,455	40,897	42,299	44,549	47,435	49,584	53,011
Medical fields	8,824	8,749	9,234	9,609	9,775	10,485	10,944	11,713
Anesthesiology	75	102	107	124	198	248	357	397
Cardiology	3	3	0	0	0	0	2	8
Oncology/cancer research	66	69	81	89	104	113	156	200
Endocrinology	53	57	63	70	82	74	66	74
Gastroenterology	1	5	0	0	0	1	0	0
Hematology	4	9	7	6	4	4	4	5
Neurology	333	381	481	598	735	823	972	1,102
Obstetrics and gynecology	7	4	8	9	7	5	10	3
Ophthalmology	17	18	19	33	37	31	23	20
Otorhinolaryngology	5	6	8	6	9	4	3	0
Pediatrics	185	163	219	227	138	140	153	154
Preventive medicine/community health	7,046	6,976	7,279	7,452	7,473	7,990	8,010	8,416
Psychiatry	101	125	122	106	67	71	46	96
Pulmonary disease	4	3	3	4	2	0	0	0
Radiology	239	215	183	208	192	196	233	252
Surgery	56	52	67	75	81	81	84	82
Clinical medicine, n.e.c.	629	561	587	602	648	704	825	904
Other health fields	30,176	31,706	31,663	32,690	34,774	36,950	38,640	41,298
Dental sciences	833	947	1,062	1,083	1,004	956	1,016	1,087
Nursing	15,676	16,077	15,998	16,226	16,920	18,265	18,597	19,588
Pharmaceutical sciences	2,533	2,672	2,602	2,609	2,826	2,936	3,010	2,830
Speech pathology/audiology	5,953	6,011	5,532	5,927	6,149	6,389	6,717	7,520
Veterinary sciences	610	607	711	735	782	881	875	923
Health related, n.e.c.	4,571	5,392	5,758	6,110	7,093	7,523	8,425	9,370

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 17. Science and engineering graduate students in doctorate-granting institutions, by geographic distribution: 1985-92

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Division and State	1985	1986	1987	1988	1989	1990	1991	1992
Total, all institutions	353,844	364,460	370,112	374,275	381,520	394,794	409,361	427,792
New England	27,004	27,742	27,688	28,527	28,012	29,633	30,529	31,211
Connecticut	3,928	4,121	4,317	4,332	4,335	4,549	4,539	4,617
Maine	523	538	614	649	667	689	747	854
Massachusetts	19,210	19,582	19,196	19,905	19,343	20,678	21,477	21,640
New Hampshire	844	878	882	973	986	1,013	1,059	1,125
Rhode Island	1,883	1,993	2,074	2,018	2,063	2,079	2,059	2,259
Vermont	616	630	605	650	618	625	648	716
Middle Atlantic	64,428	66,009	65,846	66,333	66,612	67,051	68,509	70,955
New Jersey	10,459	10,377	10,839	11,167	10,879	10,687	10,732	10,962
New York	36,961	38,109	37,641	37,597	37,911	38,259	38,481	40,437
Pennsylvania	17,008	17,523	17,366	17,569	17,822	18,105	19,296	19,556
East North Central	61,943	64,583	67,149	68,595	70,344	73,180	75,724	78,584
Illinois	17,185	17,778	18,615	18,942	19,458	20,148	20,603	21,417
Indiana	6,899	7,655	8,012	8,060	8,761	9,200	9,574	9,885
Michigan	12,801	13,502	13,792	13,816	14,558	15,091	15,435	16,709
Ohio	17,484	18,017	18,916	19,865	19,454	20,413	21,458	21,789
Wisconsin	7,574	7,631	7,814	7,912	8,113	8,328	8,654	8,784
West North Central	23,765	24,241	24,414	24,834	25,252	26,168	27,068	28,102
Iowa	4,615	4,765	4,777	4,965	4,931	5,259	5,462	5,466
Kansas	4,225	4,230	4,387	4,501	4,605	4,761	4,927	5,362
Minnesota	5,641	5,570	5,319	5,481	5,626	5,625	5,798	5,887
Missouri	5,806	6,219	6,403	6,291	6,379	6,687	6,690	6,873
Nebraska	1,721	1,676	1,764	1,805	1,856	1,985	2,144	2,342
North Dakota	949	970	915	947	947	886	916	985
South Dakota	808	811	849	844	908	1,005	1,131	1,187
South Atlantic	52,193	54,788	56,723	57,758	59,337	62,758	65,941	70,361
Delaware	1,150	1,189	1,303	1,198	1,239	1,357	1,461	1,562
District of Columbia	8,531	9,104	9,198	8,286	8,026	8,243	8,383	9,150
Florida	9,961	10,019	10,844	11,873	12,309	13,309	14,488	15,534
Georgia	5,987	6,365	6,704	6,728	6,875	7,252	7,816	8,505
Maryland	6,185	6,525	6,503	7,144	7,498	7,770	8,073	8,375
North Carolina	7,234	7,720	7,799	7,977	8,411	8,642	8,851	9,417
South Carolina	2,931	3,223	3,313	3,167	3,386	3,538	3,854	4,168
Virginia	8,599	9,068	9,573	9,797	9,981	10,888	11,111	11,624
West Virginia	1,615	1,575	1,486	1,588	1,612	1,759	1,904	2,026
East South Central	13,361	13,929	14,340	15,214	16,263	16,508	17,404	18,043
Alabama	3,759	4,089	4,472	4,710	5,127	5,471	5,756	5,913
Kentucky	2,733	2,742	2,885	3,045	3,166	3,162	3,362	3,512
Mississippi	2,172	2,250	2,255	2,389	2,501	2,429	2,554	2,572
Tennessee	4,697	4,848	4,728	5,070	5,469	5,446	5,732	6,046
West South Central	32,505	33,120	32,785	33,038	34,691	36,502	38,751	41,636
Arkansas	1,181	1,161	1,180	1,053	1,029	1,108	1,169	1,290
Louisiana	4,536	4,381	4,339	4,239	4,322	4,615	5,279	5,739
Oklahoma	3,897	4,000	4,281	4,078	4,240	4,383	4,620	4,976
Texas	22,891	23,578	22,985	23,668	25,100	26,396	27,683	29,631
Mountain	22,989	23,783	24,476	24,456	24,867	26,179	27,771	29,635
Arizona	6,682	6,748	6,800	7,115	7,224	7,325	7,468	7,791
Colorado	6,409	7,056	7,399	7,278	7,232	8,002	8,642	9,195
Idaho	1,041	1,035	1,173	1,225	1,405	1,524	1,512	1,568
Montana	980	911	901	951	981	990	1,064	1,215
Nevada	557	514	616	650	744	841	889	1,009
New Mexico	2,551	2,647	2,815	2,760	2,765	2,919	3,019	3,393
Utah	3,956	4,112	4,013	3,760	3,714	3,727	4,249	4,549
Wyoming	813	760	759	717	802	851	928	915
Pacific	53,104	53,745	54,393	53,223	53,784	54,330	55,074	56,447
Alaska	381	399	387	404	444	487	480	571
California	42,137	42,639	43,298	41,938	42,615	42,521	42,621	43,674
Hawaii	1,705	1,820	1,822	1,829	1,857	1,981	2,088	2,083
Oregon	3,262	3,429	3,454	3,580	3,549	3,780	4,066	4,218
Washington	5,619	5,458	5,432	5,472	5,319	5,561	5,819	5,901
Outlying areas	2,552	2,520	2,298	2,297	2,358	2,485	2,590	2,818

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 18. Full-time science and engineering graduate students in doctorate-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	240,082	248,496	253,089	258,020	264,941	273,521	285,935	299,753
Total, science and engineering fields	219,090	227,487	231,639	235,706	241,336	248,412	259,087	270,984
Sciences, total	164,755	169,143	171,624	174,633	178,950	184,609	190,565	199,161
Physical sciences	25,917	26,981	27,683	27,816	28,405	28,764	29,327	30,011
Astronomy	635	654	681	705	762	790	810	840
Chemistry	15,070	15,535	15,749	15,600	15,799	15,963	16,294	16,611
Physics	10,079	10,667	11,095	11,393	11,749	11,914	12,116	12,432
Physical sciences, n.e.c.	133	125	158	118	95	97	107	128
Earth, atmospheric, & ocean sciences	10,883	10,883	10,097	9,851	9,724	9,950	10,009	10,567
Atmospheric sciences	867	854	822	825	803	828	857	958
Geosciences	7,343	7,107	6,411	6,061	5,785	5,591	5,492	5,662
Oceanography	1,520	1,652	1,603	1,576	1,745	1,879	1,927	2,055
Earth, atmos., & ocean sci., n.e.c.	1,153	1,270	1,261	1,389	1,391	1,652	1,733	1,892
Mathematical sciences	11,145	11,722	12,344	12,809	13,013	13,184	13,531	13,889
Computer sciences	12,168	13,204	13,458	13,456	13,915	14,642	14,603	15,554
Agricultural sciences	8,720	8,834	8,592	8,569	8,512	8,546	8,706	8,907
Biological sciences	35,391	36,262	36,780	37,774	38,879	39,457	41,170	42,769
Anatomy	891	893	929	973	999	907	961	961
Biochemistry	4,417	4,593	4,584	4,720	4,793	4,822	4,946	5,040
Biology	7,150	7,261	7,286	7,486	7,902	7,906	8,160	8,328
Biometry/epidemiology	998	1,048	1,166	1,213	1,211	1,231	1,431	1,627
Biophysics	381	449	468	544	610	605	679	728
Botany	2,695	2,724	2,556	2,520	2,423	2,290	2,244	2,247
Cell biology	1,406	1,655	1,886	2,023	2,177	2,485	2,716	2,956
Ecology	864	854	784	816	866	878	908	976
Entomology/parasitology	1,138	1,107	1,082	1,061	1,009	997	1,014	1,016
Genetics	1,014	1,129	1,167	1,146	1,211	1,255	1,371	1,492
Microbio., immunology, & virology	3,868	3,857	4,000	4,301	4,321	4,352	4,401	4,467
Nutrition	2,915	2,931	2,894	2,768	2,746	2,830	2,871	2,822
Pathology	996	1,029	1,078	1,075	1,111	1,080	1,121	1,182
Pharmacology	1,993	1,956	1,922	1,986	2,135	2,208	2,304	2,401
Physiology	1,986	2,005	1,996	2,008	2,057	2,076	2,163	2,162
Zoology	1,699	1,708	1,775	1,708	1,765	1,676	1,765	1,772
Biosciences, n.e.c.	982	1,063	1,227	1,426	1,543	1,859	2,115	2,592
Psychology	21,266	21,859	22,462	23,315	24,212	24,895	26,106	27,192
Social sciences	39,265	39,398	40,208	41,043	42,290	45,171	47,113	50,272
Agricultural economics	1,946	1,915	1,823	1,878	1,885	1,934	1,976	2,070
Anthropology (cultural & social)	3,792	3,993	4,025	4,193	4,316	4,712	4,988	5,196
Economics (except agricultural)	8,575	8,614	8,666	8,739	8,804	8,989	9,513	9,781
Geography	1,931	1,916	2,034	1,941	2,091	2,140	2,282	2,536
Linguistics	2,305	2,311	2,391	2,457	2,406	2,552	2,510	2,397
Political science	11,557	11,837	11,659	11,920	12,575	13,660	14,388	15,834
Sociology	4,342	4,321	4,712	4,800	4,956	5,316	5,473	5,862
Sociology/anthropology	534	550	527	538	607	744	650	702
Social sciences, other	4,283	3,941	4,371	4,577	4,650	5,124	5,353	5,894
Engineering, total	54,335	58,344	60,015	61,075	62,386	63,803	68,522	71,823
Aerospace engineering	1,980	2,138	2,355	2,517	2,742	2,946	3,258	3,293
Agricultural engineering	767	881	924	879	851	790	821	829
Biomedical engineering	1,117	1,280	1,352	1,402	1,572	1,761	1,896	2,081
Chemical engineering	5,483	5,500	5,590	5,290	5,243	5,404	5,732	5,886
Civil engineering	9,500	9,663	9,354	9,602	9,654	9,854	10,954	11,854
Electrical engineering	14,361	15,753	16,476	17,014	17,672	17,845	18,930	20,080
Engineering science	1,246	1,427	1,356	1,405	1,249	1,241	1,357	1,408
Industrial eng./management sci.	3,319	3,678	4,022	4,150	4,467	4,485	5,293	5,778
Mechanical engineering	8,654	9,561	9,999	10,166	10,208	10,505	11,281	12,030
Metallurgical/materials eng.	3,075	3,340	3,409	3,441	3,687	3,910	4,037	4,261
Nuclear engineering	1,030	1,059	1,044	1,105	1,112	1,080	1,080	1,084
Engineering, other	3,803	4,084	4,134	4,104	3,929	3,982	3,883	3,259
Total, health fields	20,992	21,009	21,450	22,312	23,605	25,109	26,848	28,769
Clinical fields	1,072	1,041	1,096	1,170	1,306	1,396	1,613	1,780
Dental sciences	743	834	914	928	856	827	875	944
Nursing	5,556	5,379	5,377	5,386	5,372	5,546	5,655	5,578
Pharmaceutical sciences	1,787	1,841	1,823	1,906	2,092	2,197	2,241	2,123
Preventive medicine/community health	4,085	4,021	4,104	4,172	4,170	4,443	4,335	4,776
Speech pathology/audiology	4,440	4,323	4,001	4,320	4,549	4,594	5,003	5,603
Veterinary sciences	491	488	575	589	649	698	708	743
Other health fields	2,838	3,084	3,560	3,841	4,611	5,406	6,420	7,222

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 19. Part-time science and engineering graduate students in doctorate-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	113,762	115,964	117,023	116,255	116,579	121,273	123,426	128,039
Total, science and engineering fields	95,754	96,518	97,576	96,268	95,635	98,947	100,690	103,797
Sciences, total	60,347	59,772	60,846	61,139	61,320	63,624	64,993	67,328
Physical sciences	3,434	3,523	3,385	3,480	3,436	3,623	3,556	3,600
Astronomy	36	35	41	26	27	20	19	29
Chemistry	2,115	2,089	1,958	1,908	1,920	2,075	1,985	2,188
Physics	1,224	1,286	1,296	1,452	1,396	1,426	1,443	1,302
Physical sciences, n.e.c.	59	113	90	94	93	102	109	81
Earth, atmospheric, & ocean sciences	3,419	3,197	3,311	3,108	3,018	3,077	3,346	3,397
Atmospheric sciences	84	102	126	104	97	97	99	118
Geosciences	2,229	2,113	2,014	1,864	1,806	1,627	1,580	1,571
Oceanography	464	375	419	350	325	319	339	338
Earth, atmos., & ocean sci., n.e.c.	642	607	752	790	790	1,034	1,328	1,370
Mathematical sciences	4,093	3,923	3,842	3,989	3,831	4,026	3,993	4,001
Computer sciences	11,212	11,536	12,157	12,516	12,148	12,786	12,945	13,488
Agricultural sciences	1,944	1,793	1,685	1,673	1,784	1,841	1,881	1,984
Biological sciences	6,730	6,704	6,346	6,248	6,239	6,743	6,769	7,454
Anatomy	102	80	87	83	79	89	90	70
Biochemistry	185	227	178	167	248	195	220	302
Biology	2,339	2,402	2,139	2,073	1,926	2,116	2,158	2,486
Biometry/epidemiology	364	386	390	469	511	640	600	742
Biophysics	60	98	123	48	45	37	18	23
Botany	465	377	404	372	383	379	381	380
Cell biology	23	61	78	55	57	70	93	137
Ecology	114	112	115	118	146	164	171	179
Entomology/parasitology	204	199	182	179	172	176	157	177
Genetics	61	90	106	101	110	109	107	111
Microbio., immunology, & virology	508	455	388	424	465	477	497	501
Nutrition	1,062	1,039	1,053	1,124	1,143	1,128	1,056	1,035
Pathology	278	268	263	225	216	239	300	258
Pharmacology	112	120	149	137	130	144	128	144
Physiology	225	215	217	212	149	160	169	157
Zoology	404	357	322	314	309	420	408	409
Biosciences, n.e.c.	224	218	152	147	150	200	216	343
Psychology	9,168	8,703	9,018	9,128	9,233	9,851	10,470	10,506
Social sciences	20,347	20,393	21,102	20,997	21,631	21,677	22,033	22,898
Agricultural economics	254	269	329	331	342	298	335	375
Anthropology (cultural & social)	1,552	1,557	1,550	1,476	1,551	1,498	1,450	1,608
Economics (except agricultural)	2,732	2,534	2,471	2,466	2,490	2,511	2,324	2,492
Geography	577	642	629	646	710	762	826	886
Linguistics	533	547	599	459	570	562	625	544
Political science	9,974	10,044	10,876	10,562	10,924	10,745	11,103	11,247
Sociology	1,567	1,527	1,555	1,572	1,637	1,533	1,666	1,750
Sociology/anthropology	372	354	355	374	339	381	307	344
Social sciences, other	2,786	2,919	2,738	3,111	3,068	3,387	3,397	3,652
Engineering, total	35,407	36,746	36,730	35,129	34,315	35,323	35,697	36,469
Aerospace engineering	526	633	625	669	645	829	727	706
Agricultural engineering	174	173	139	160	180	146	157	160
Biomedical engineering	200	201	261	274	281	306	269	346
Chemical engineering	1,504	1,334	1,344	1,189	1,103	1,191	1,239	1,367
Civil engineering	4,668	4,456	4,222	4,194	4,319	4,616	5,082	5,873
Electrical engineering	12,208	12,302	12,839	12,907	12,758	12,571	12,656	12,495
Engineering science	592	701	755	762	809	761	767	777
Industrial eng./management sci.	6,492	7,113	7,391	6,478	5,644	5,546	5,992	6,400
Mechanical engineering	4,652	5,103	5,273	4,914	4,851	5,018	5,200	5,469
Metallurgical/materials eng.	748	737	835	786	782	898	973	1,020
Nuclear engineering	190	206	235	198	211	198	202	202
Engineering, other	3,453	3,787	2,811	2,598	2,732	3,243	2,433	1,654
Total, health fields	18,008	19,446	19,447	19,987	20,944	22,326	22,736	24,242
Clinical fields	373	351	378	389	261	276	349	415
Dental sciences	90	113	148	155	148	129	141	123
Nursing	10,120	10,698	10,621	10,840	11,548	12,719	12,942	14,010
Pharmaceutical sciences	746	831	779	703	734	739	769	707
Preventive medicine/community health	2,981	2,955	3,175	3,280	3,303	3,547	3,675	3,840
Speech pathology/audiology	1,513	1,688	1,531	1,607	1,600	1,795	1,714	1,917
Veterinary sciences	119	121	136	146	133	183	169	180
Other health fields	2,066	2,689	2,679	2,867	3,217	2,938	2,977	3,250

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 20. Science and engineering graduate students in master's-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	51,752	52,117	52,473	51,657	54,551	59,271	63,589	67,605
Total, science and engineering fields	44,341	44,701	44,715	43,871	46,477	50,787	53,789	56,832
Sciences, total	37,869	37,656	37,356	36,938	39,028	42,185	44,708	47,077
Physical sciences	1,630	1,744	1,662	1,686	1,778	1,748	1,916	1,885
Astronomy	0	0	0	0	0	0	0	0
Chemistry	1,115	1,113	1,112	1,084	1,093	1,063	1,109	1,105
Physics	369	486	416	463	512	528	581	530
Physical sciences, n.e.c.	146	145	134	139	173	157	226	250
Earth, atmospheric, & ocean sciences	1,289	1,130	1,114	1,108	1,088	1,168	1,365	1,645
Atmospheric sciences	13	5	4	11	12	4	12	13
Geosciences	722	599	573	538	461	476	511	526
Oceanography	97	101	105	107	137	135	120	137
Earth, atmos., & ocean sci., n.e.c.	457	425	432	452	478	553	722	969
Mathematical sciences	2,353	2,322	2,338	2,305	2,464	2,591	2,454	2,485
Mathematics & applied mathematics	2,181	2,155	2,151	2,125	2,296	2,419	2,294	2,296
Statistics	172	167	187	180	168	172	160	189
Computer sciences	6,222	6,435	6,286	6,081	6,257	6,921	7,240	7,354
Agricultural sciences	700	654	665	698	683	738	728	718
Biological sciences	4,080	3,907	3,775	3,660	3,852	3,890	3,936	4,214
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	54	55	51	34	41	36	41	44
Biology	3,221	3,015	2,906	2,834	2,933	3,013	2,981	3,083
Biometry/epidemiology	0	0	0	0	0	0	1	0
Biophysics	0	0	0	0	0	0	0	0
Botany	28	48	45	44	38	51	50	63
Cell biology	0	0	0	0	0	0	0	0
Ecology	50	56	64	65	72	94	101	146
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	45	43	41	42	44	44	42	40
Microbio., immunology, & virology	70	60	64	48	41	43	38	40
Nutrition	337	351	341	336	370	310	324	388
Pathology	47	65	56	57	66	67	71	77
Pharmacology	2	2	1	1	2	0	0	0
Physiology	0	0	0	0	0	0	0	0
Zoology	32	18	16	12	14	13	23	22
Biosciences, n.e.c.	194	194	190	187	231	219	264	311
Psychology	10,739	10,855	11,270	11,684	12,558	13,932	15,215	16,122
Psychology, general	0	7	27	4,901	5,334	6,031	7,059	7,720
Clinical psychology	10,707	10,813	11,212	5,691	6,021	6,355	6,488	5,760
Psychology, n.e.c.	32	35	31	1,092	1,203	1,546	1,668	2,642
Social sciences	10,856	10,609	10,246	9,736	10,348	11,197	11,854	12,654
Agricultural economics	68	64	51	50	49	41	53	68
Anthropology (cultural & social)	287	255	260	276	261	284	311	325
Economics (except agricultural)	1,123	955	883	831	849	806	891	993
Geography	428	497	560	621	678	628	652	675
History and philosophy of science	0	0	0	0	0	0	0	0
Linguistics	217	251	292	327	310	290	290	347
Political science	5,481	5,370	5,086	5,377	5,792	6,190	6,396	6,689
Sociology	657	684	719	715	800	935	1,153	1,249
Sociology/anthropology	128	117	100	79	76	87	75	77
Social sciences, n.e.c.	2,467	2,416	2,315	1,460	1,533	1,936	2,033	2,231
Engineering, total	6,472	7,045	7,359	6,933	7,449	8,602	9,081	9,755
Aerospace engineering	32	33	35	37	67	91	67	37
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	56	66	76	79	66	63	48	52
Chemical engineering	163	178	177	139	114	140	156	182
Civil engineering	746	868	1,142	1,026	946	1,083	1,340	1,658
Electrical engineering	1,634	1,914	2,084	2,114	2,827	3,306	3,387	3,697
Engineering science	260	234	232	219	19	18	30	33
Industrial eng./management sci.	994	1,052	1,003	1,010	1,217	1,474	1,547	1,557
Mechanical engineering	851	1,049	1,094	1,106	1,153	1,285	1,166	1,269
Metallurgical/materials eng.	120	131	122	108	120	138	154	189
Mining engineering	28	25	29	39	30	28	14	11
Nuclear engineering	0	0	0	0	0	0	0	0
Petroleum engineering	30	21	28	31	14	14	11	16
Engineering, n.e.c.	1,558	1,472	1,337	1,025	876	982	1,161	1,054

See explanatory information, if any, and SOURCE(S) at end of table.

Table 20. Science and engineering graduate students in master's-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, health fields	7,411	7,416	7,758	7,786	8,074	8,484	9,800	10,773
Medical fields	456	478	496	501	468	477	620	757
Anesthesiology	0	0	0	77	79	62	86	197
Cardiology	0	0	0	0	0	0	0	0
Oncology/cancer research	0	0	0	0	0	0	0	0
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	13	10	22	14	9	20	25	15
Obstetrics and gynecology	0	0	0	0	0	0	0	0
Ophthalmology	0	0	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0
Preventive medicine/community health	233	246	277	226	214	256	361	321
Psychiatry	0	0	0	0	0	0	0	0
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	0	0	0	0	0	0	0	0
Surgery	0	0	0	0	0	0	0	0
Clinical medicine, n.e.c.	210	222	197	184	166	139	148	224
Other health fields	6,955	6,938	7,282	7,285	7,606	8,007	9,180	10,016
Dental sciences	0	0	0	0	0	0	0	0
Nursing	2,301	2,347	2,481	2,684	2,813	2,980	3,519	3,745
Pharmaceutical sciences	20	10	5	4	8	2	1	16
Speech pathology/audiology	2,033	1,946	1,985	1,741	1,939	2,121	2,404	2,497
Veterinary sciences	27	23	20	17	19	19	19	19
Health related, n.e.c.	2,574	2,612	2,791	2,839	2,827	2,885	3,237	3,739

NOTE: Master's-granting institutions were surveyed on a sample basis from 1985 through 1987. Data shown here are therefore subject to sampling error. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 21. Full-time science and engineering graduate students in master's-granting institutions, by field: 1985-92

Page 1 of 1

Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	17,947	18,189	18,557	17,772	18,412	20,165	21,693	23,646
Total, science and engineering fields	15,405	15,621	15,881	15,258	15,819	17,348	18,264	20,009
Sciences, total	13,829	13,773	13,913	13,216	13,757	15,097	16,015	17,366
Physical sciences	752	783	731	758	802	733	782	719
Astronomy	0	0	0	0	0	0	0	0
Chemistry	510	462	486	488	473	414	428	379
Physics	208	290	209	245	291	284	316	313
Physical sciences, n.e.c.	34	31	36	25	38	35	38	27
Earth, atmospheric, & ocean sciences	575	464	446	454	414	427	509	583
Atmospheric sciences	5	1	2	4	7	0	2	1
Geosciences	360	277	255	249	198	210	200	227
Oceanography	42	42	48	53	54	55	64	78
Earth, atmos., & ocean sci., n.e.c.	168	144	141	148	155	162	243	277
Mathematical sciences	683	668	700	705	682	684	731	774
Computer sciences	1,656	1,831	1,850	1,632	1,643	2,087	2,049	2,063
Agricultural sciences	376	377	372	398	388	409	445	373
Biological sciences	1,695	1,627	1,579	1,527	1,580	1,571	1,619	1,749
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	36	37	20	11	17	17	14	15
Biology	1,369	1,295	1,253	1,240	1,267	1,269	1,286	1,355
Biometry/epidemiology	0	0	0	0	0	0	0	0
Biophysics	0	0	0	0	0	0	0	0
Botany	22	39	40	36	33	43	47	61
Cell biology	0	0	0	0	0	0	0	0
Ecology	12	13	12	14	7	6	11	21
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	43	42	41	41	43	42	41	38
Microbio., immunology, & virology	10	12	16	7	8	11	7	15
Nutrition	125	124	120	108	128	88	88	121
Pathology	7	5	15	9	15	28	28	27
Pharmacology	0	0	0	0	0	0	0	0
Physiology	0	0	0	0	0	0	0	0
Zoology	19	12	12	11	8	6	22	21
Biosciences, n.e.c.	52	48	50	50	54	61	75	75
Psychology	4,355	4,485	4,855	4,927	5,293	5,933	6,287	7,194
Social sciences	3,737	3,538	3,380	2,815	2,955	3,253	3,593	3,911
Agricultural economics	44	49	34	31	27	27	35	36
Anthropology (cultural & social)	124	68	83	83	95	95	109	127
Economics (except agricultural)	363	345	319	282	284	294	358	432
Geography	193	192	256	274	267	234	257	256
Linguistics	32	47	58	62	59	34	39	76
Political science	1,614	1,573	1,358	1,357	1,445	1,631	1,761	1,855
Sociology	307	280	321	290	317	364	413	466
Sociology/anthropology	31	34	33	28	26	38	41	39
Social sciences, other	1,029	950	918	408	435	536	580	624
Engineering, total	1,576	1,848	1,968	2,042	2,062	2,251	2,249	2,643
Aerospace engineering	14	16	17	16	30	64	67	13
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	12	14	40	53	39	37	25	29
Chemical engineering	63	94	84	69	39	39	56	77
Civil engineering	280	319	297	355	320	285	386	525
Electrical engineering	438	537	625	692	794	830	789	911
Engineering science	18	18	17	13	10	11	7	7
Industrial eng./management sci.	175	171	188	211	258	375	278	314
Mechanical engineering	221	228	231	260	256	311	299	395
Metallurgical/materials eng.	18	30	27	23	28	24	25	28
Nuclear engineering	0	0	0	0	0	0	0	0
Engineering, other	357	421	442	350	288	275	317	344
Total, health fields	2,542	2,568	2,676	2,514	2,593	2,817	3,429	3,637
Clinical fields	43	57	43	115	127	108	129	171
Dental sciences	0	0	0	0	0	0	0	0
Nursing	492	499	547	638	615	603	820	752
Pharmaceutical sciences	2	0	1	1	0	0	0	0
Preventive medicine/community health	60	54	58	52	43	65	62	54
Speech pathology/audiology	1,006	1,068	1,088	927	1,091	1,203	1,510	1,609
Veterinary sciences	24	20	17	17	19	11	11	11
Other health fields	915	870	922	764	698	827	897	1,040

NOTE: Master's-granting institutions were surveyed on a sample basis from 1985 through 1987. Data shown here are therefore subject to sampling error. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 22. Part-time science and engineering graduate students in master's-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	33,805	33,928	33,916	33,885	36,139	39,106	41,896	43,959
Total, science and engineering fields	28,936	29,080	28,834	28,613	30,658	33,439	35,525	36,823
Sciences, total	24,040	23,883	23,443	23,722	25,271	27,088	28,693	29,711
Physical sciences	878	961	931	908	976	1,015	1,134	1,166
Astronomy	0	0	0	0	0	0	0	0
Chemistry	605	651	626	576	620	649	681	726
Physics	161	196	207	218	221	244	265	217
Physical sciences, n.e.c.	112	114	98	114	135	122	188	223
Earth, atmospheric, & ocean sciences	714	666	668	654	674	741	856	1,062
Atmospheric sciences	8	4	2	7	5	4	10	12
Geosciences	362	322	318	289	263	266	311	299
Oceanography	55	59	57	54	83	80	56	59
Earth, atmos., & ocean sci., n.e.c.	289	281	291	304	323	391	479	692
Mathematical sciences	1,670	1,654	1,638	1,600	1,782	1,907	1,723	1,711
Computer sciences	4,566	4,604	4,436	4,449	4,614	4,834	5,191	5,291
Agricultural sciences	324	277	293	300	295	329	283	345
Biological sciences	2,385	2,280	2,196	2,133	2,272	2,319	2,317	2,465
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	18	18	31	23	24	19	27	29
Biology	1,852	1,720	1,653	1,594	1,666	1,744	1,695	1,728
Biometry/epidemiology	0	0	0	0	0	0	1	0
Biophysics	0	0	0	0	0	0	0	0
Botany	6	9	5	8	5	8	3	2
Cell biology	0	0	0	0	0	0	0	0
Ecology	38	43	52	51	65	88	90	125
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	2	1	0	1	1	2	1	2
Microbio., immunology, & virology	60	48	48	41	33	32	31	25
Nutrition	212	227	221	228	242	222	236	267
Pathology	40	60	41	48	51	39	43	50
Pharmacology	2	2	1	1	2	0	0	0
Physiology	0	0	0	0	0	0	0	0
Zoology	13	6	4	1	6	7	1	1
Biosciences, n.e.c.	142	146	140	137	177	158	189	236
Psychology	6,384	6,370	6,415	6,757	7,265	7,999	8,928	8,928
Social sciences	7,119	7,071	6,866	6,921	7,393	7,944	8,261	8,743
Agricultural economics	24	15	17	19	22	14	18	32
Anthropology (cultural & social)	163	187	177	193	166	189	202	198
Economics (except agricultural)	760	610	564	549	565	512	533	561
Geography	235	305	304	347	411	394	395	419
Linguistics	185	204	234	265	251	256	251	271
Political science	3,867	3,797	3,708	4,020	4,347	4,559	4,635	4,834
Sociology	350	404	398	425	483	571	740	783
Sociology/anthropology	97	83	67	51	50	49	34	38
Social sciences, other	1,438	1,466	1,397	1,052	1,098	1,400	1,453	1,607
Engineering, total	4,896	5,197	5,391	4,891	5,387	6,351	6,832	7,112
Aerospace engineering	18	17	18	21	37	27	0	24
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	44	54	36	26	27	26	23	23
Chemical engineering	100	84	93	70	75	101	100	105
Civil engineering	488	549	845	671	626	798	954	1,133
Electrical engineering	1,196	1,377	1,459	1,422	2,033	2,476	2,598	2,786
Engineering science	242	216	215	206	9	7	23	26
Industrial eng./management sci.	819	881	815	799	959	1,099	1,269	1,243
Mechanical engineering	630	821	863	846	897	954	867	874
Metallurgical/materials eng.	102	101	95	85	92	114	129	161
Nuclear engineering	0	0	0	0	0	0	0	0
Engineering, other	1,257	1,097	952	745	632	749	869	737
Total, health fields	4,869	4,848	5,082	5,272	5,481	5,667	6,371	7,136
Clinical fields	167	165	154	146	118	93	105	250
Dental sciences	0	0	0	0	0	0	0	0
Nursing	1,809	1,848	1,934	2,046	2,198	2,377	2,699	2,993
Pharmaceutical sciences	18	10	4	3	8	2	1	16
Preventive medicine/community health	173	192	219	174	171	191	299	267
Speech pathology/audiology	1,027	878	877	814	848	918	894	888
Veterinary sciences	3	3	3	0	0	8	8	8
Other health fields	1,672	1,752	1,891	2,089	2,138	2,078	2,365	2,714

NOTE: Master's-granting institutions were surveyed on a sample basis from 1985 through 1987. Data shown here are therefore subject to sampling error. See "Technical Notes" for further information.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Total, all institutions	495,397	313,566	118,047	63,784
New England	35,553	21,926	9,193	4,434
Connecticut	7,372	4,749	1,513	1,110
Central Connecticut State University	37	37	0	0
Connecticut College	31	31	0	0
Quinnipiac College	182	0	0	182
Southern Connecticut State University	209	114	0	95
St. Joseph College	167	116	0	51
The Hartford Graduate Center	779	323	456	0
Trinity College	58	58	0	0
University of Bridgeport	133	29	104	0
University of Connecticut	2,658	1,589	597	472
University of Hartford	276	201	11	64
University of New Haven	853	650	203	0
Wesleyan University	132	132	0	0
Western Connecticut State University	30	30	0	0
Yale University	1,827	1,439	142	246
Maine	854	636	178	40
University of Maine	811	633	178	0
University of New England	43	3	0	40
Massachusetts	22,977	13,481	6,622	2,874
American International College	169	169	0	0
Anna Maria College	99	83	0	16
Assumption College	209	100	0	109
Boston College	680	472	0	208
Boston University	2,754	1,738	562	454
Brandeis University	432	432	0	0
Bridgewater State College	52	52	0	0
Clark University	273	273	0	0
Emerson College	102	0	0	102
Framingham State College	10	10	0	0
Harvard University	3,585	3,067	198	322
MGH Institute of Health Professions	251	10	0	241
Mass College of Pharmacy/Allied Health	41	24	0	17
Massachusetts Institute of Technology	4,270	1,962	2,304	4
Mount Holyoke College	14	14	0	0
Northeastern University	2,253	1,004	1,000	249
Salem State College	116	19	0	97
Smith College	8	8	0	0
Tufts University	1,150	657	342	151
University of Massachusetts	3,140	2,018	608	514
University of Massachusetts Dartmouth	178	98	54	26
University of Massachusetts Lowell	2,053	850	914	289
Western New England College	215	6	134	75
Williams College	21	21	0	0
Woods Hole Oceanographic Institution	113	87	26	0
Worcester Polytechnic Institute	786	304	482	0
Worcester State College	3	3	0	0
New Hampshire	1,257	879	303	75
Dartmouth College	381	261	120	0
Rivier College	132	132	0	0
University of New Hampshire	744	486	183	75
Rhode Island	2,342	1,616	463	263
Brown University	859	716	131	12
Providence College	0	0	0	0
Rhode Island College	83	83	0	0
University of Rhode Island	1,400	817	332	251
Vermont	751	565	114	72
Goddard College	34	34	0	0
Marlboro College	0	0	0	0
Middlebury College	1	1	0	0
University of Vermont	716	530	114	72
Middle Atlantic	84,691	55,871	18,034	10,786
New Jersey	12,100	8,066	3,204	830
Drew University	13	13	0	0

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
New Jersey, continued				
Fairleigh Dickinson University	1,070	979	91	0
Kean College of New Jersey	92	92	0	0
Monmouth College	379	175	204	0
Montclair State College	452	452	0	0
New Jersey Institute of Technology	1,820	732	1,088	0
Princeton University	1,379	985	394	0
Rutgers the State University	4,548	3,201	807	540
Seton Hall University	571	413	0	158
Stevens Institute of Technology	1,335	715	620	0
Trenton State College	36	11	0	25
Univ of Med and Dentistry of New Jersey	239	188	0	51
William Paterson College	166	110	0	56
New York	49,381	34,096	8,747	6,538
Adelphi University	883	387	0	496
Albany Medical College	114	86	0	28
Alfred University	124	38	86	0
CUNY Bernard Baruch College	353	353	0	0
CUNY Brooklyn College	768	647	0	121
CUNY City College	1,187	623	542	22
CUNY College of Staten Island	101	101	0	0
CUNY Graduate School and Univ Center	1,862	1,646	149	67
CUNY Herbert H. Lehman College	53	53	0	0
CUNY Hunter College	774	414	0	360
CUNY John Jay College of Crim Justice	594	594	0	0
CUNY Mt. Sinai Sch of Medicine	156	156	0	0
CUNY Queens College	502	466	0	36
Clarkson University	279	81	198	0
College of New Rochelle	283	148	0	135
College of St Rose	120	21	0	99
Columbia Univ in the City of New York	3,023	1,736	761	526
Columbia University Teachers College	2,020	1,374	0	646
Cooper Union	52	0	52	0
Cornell University	3,768	2,852	848	68
Fordham University	584	584	0	0
Hofstra University	462	349	0	113
Iona College	611	442	0	169
Ithaca College	38	0	0	38
Long Island University	1,519	1,021	0	498
Manhattan College	361	33	328	0
Marist College	331	331	0	0
New School for Social Research	1,164	1,164	0	0
New York Institute of Technology	1,025	789	236	0
New York Medical College	227	179	0	48
New York University	3,469	3,007	0	462
Niagara University	3	3	0	0
Pace University	1,075	791	0	284
Polytechnic University	1,540	605	935	0
Pratt Institute	2	2	0	0
Rensselaer Polytechnic Institute	2,040	617	1,423	0
Rochester Institute of Technology	1,027	672	334	21
Rockefeller University	134	134	0	0
Russell Sage College	824	363	0	461
SUNY - Albany	1,858	1,773	0	85
SUNY - Binghamton	1,231	841	300	90
SUNY - Buffalo	3,413	1,859	1,039	515
SUNY - Coll of Env Science and Forestry	457	342	115	0
SUNY - Health Sci Ctr at Brooklyn	158	119	0	39
SUNY - Health Sci Ctr at Syracuse	78	64	0	14
SUNY - Stony Brook	2,353	1,877	251	225
SUNY College at Brockport	262	229	0	33
SUNY College at Buffalo	20	20	0	0
SUNY College at Cortland	11	11	0	0
SUNY College at Fredonia	8	8	0	0
SUNY College at Geneseo	51	16	0	35
SUNY College at New Paltz	149	149	0	0
SUNY College at Oneonta	6	6	0	0
SUNY College at Oswego	230	230	0	0
SUNY College at Plattsburgh	43	43	0	0
SUNY College at Potsdam	4	4	0	0
SUNY College of Optometry	18	0	0	18
SUNY College of Technology at Utica/Rom	75	75	0	0
Saint John's University	778	483	0	295
Sarah Lawrence College	40	40	0	0
St Bonaventure University	14	14	0	0
Syracuse University	2,331	1,184	858	289
Union College	153	59	78	16
University of Rochester	1,454	1,147	214	93

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

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Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
New York, continued				
Vassar College	3	3	0	0
Wagner College	97	29	0	68
Yeshiva University	634	609	0	25
Pennsylvania	23,210	13,709	6,083	3,418
Bloomsburg University of Pennsylvania	41	16	0	25
Bryn Mawr College	170	170	0	0
Bucknell University	72	35	37	0
California University of Pennsylvania	223	172	0	51
Carnegie-Mellon University	1,671	1,068	603	0
Clarion University of Pennsylvania	161	92	0	69
Drexel University	1,431	484	947	0
Duquesne University	445	261	0	184
East Stroudsburg Univ of Pennsylvania	113	113	0	0
Edinboro University of Pennsylvania	225	131	0	94
Gannon University	296	93	32	171
Hahnemann University	594	396	0	198
Indiana University of Pennsylvania	158	158	0	0
Kutztown University of Pennsylvania	165	165	0	0
Lehigh University	1,114	554	560	0
Mansfield University of Pennsylvania	18	18	0	0
Marywood College	136	136	0	0
Millersville University of Pennsylvania	115	115	0	0
Pennsylvania State University	4,351	2,473	1,777	101
Phila College of Osteopathic Medicine	2	0	0	2
Philadelphia Coll of Pharmacy and Sci	66	31	0	35
Shippensburg University of Pennsylvania	367	367	0	0
Slippery Rock University of Pennsylvani	177	40	0	137
St Joseph's University	769	246	0	523
Swarthmore College	0	0	0	0
Temple University	1,661	1,089	114	458
The Medical College of Pennsylvania	118	85	0	33
Thomas Jefferson University	328	212	0	116
University of Pennsylvania	2,545	1,808	664	73
University of Pittsburgh	3,964	2,224	772	968
University of Scranton	161	130	0	31
Villanova University	938	520	418	0
West Chester University of Pennsylvania	432	302	0	130
Widener University	143	0	143	0
Wilkes University	40	5	16	19
East North Central	86,593	53,757	21,262	11,574
Illinois	25,591	17,542	4,753	3,296
Bradley University	267	73	194	0
Chicago College of Osteopathic Medicine	0	0	0	0
Chicago School of Prof Psych	139	139	0	0
Chicago State University	196	196	0	0
De Paul University	1,468	1,359	0	109
Eastern Illinois University	183	150	0	33
Forest Institute of Professional Psych	185	185	0	0
Governors State University	640	444	0	196
Illinois Institute of Technology	1,916	1,142	774	0
Illinois State University	633	550	0	83
Loyola University of Chicago	753	633	0	120
Northeastern Illinois University	496	452	0	44
Northern Illinois University	1,257	859	164	234
Northwestern University	2,069	1,184	659	226
Roosevelt University	353	353	0	0
Rush University	421	98	0	323
Sangamon State University	782	725	0	57
Southern Illinois Univ at Carbondale	1,543	1,057	248	238
Southern Illinois Univ at Edwardsville	776	475	132	169
Univ of Health Sci/The Chicago Med Sch	141	130	0	11
Univ of Illinois at Urbana-Champaign	5,157	3,345	1,585	227
University of Chicago	2,212	2,190	0	22
University of Illinois at Chicago	3,523	1,407	997	1,119
Western Illinois University	481	396	0	85
Indiana	10,201	6,704	2,201	1,296
Ball State University	521	395	0	126
Butler University	35	16	0	19
Indiana State University	333	307	0	26
Indiana University	3,990	3,173	71	746
Indiana Wesleyan University	25	0	0	25
Purdue University	4,169	2,121	1,750	298

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Indiana, continued				
Rose-Hulman Institute of Technology	124	17	107	0
Saint Francis College	50	50	0	0
University of Evansville	33	0	2	31
University of Notre Dame	872	601	271	0
Valparaiso University	49	24	0	25
Michigan	18,245	10,277	5,891	2,077
Andrews University	284	163	0	121
Central Michigan University	390	341	0	49
Eastern Michigan University	1,029	761	231	37
Grand Valley State University	284	90	0	194
Michigan State University	3,293	2,536	557	200
Michigan Technological University	510	205	305	0
Northern Michigan University	223	123	0	100
Oakland University	751	241	424	86
University of Detroit Mercy	705	457	190	58
University of Michigan	5,514	2,461	2,619	434
Wayne State University	3,572	1,672	1,249	651
Western Michigan University	1,690	1,227	316	147
Ohio	22,232	13,013	5,831	3,388
Air Force Institute of Technology	588	159	429	0
Antioch University	1,677	1,580	97	0
Bowling Green State University	604	567	0	37
Case Western Reserve University	1,749	818	621	310
Cleveland State University	1,220	727	416	77
John Carroll University	66	66	0	0
Kent State University	1,071	830	0	241
Medical College of Ohio at Toledo	387	0	0	387
Miami University	481	443	17	21
NE Ohio Universities College of Medicin	0	0	0	0
Ohio University	1,026	683	287	56
The Ohio State University	5,510	3,441	1,195	874
Union Institute	416	377	4	35
University of Akron	1,607	840	461	306
University of Cincinnati	2,740	1,069	1,092	579
University of Dayton	739	241	498	0
University of Toledo	784	377	365	42
Wright State University	1,190	624	285	281
Xavier University	205	63	0	142
Youngstown State University	172	108	64	0
Wisconsin	10,324	6,221	2,586	1,517
Marquette University	772	215	381	176
Medical College of Wisconsin	120	120	0	0
Milwaukee School of Engineering	394	0	394	0
University of Wisconsin - Eau Claire	131	28	0	103
University of Wisconsin - Green Bay	55	55	0	0
University of Wisconsin - La Crosse	72	54	0	18
University of Wisconsin - Madison	6,117	4,089	1,323	705
University of Wisconsin - Milwaukee	1,775	1,167	419	189
University of Wisconsin - Oshkosh	313	169	0	144
University of Wisconsin - Platteville	27	17	10	0
University of Wisconsin - River Falls	63	63	0	0
University of Wisconsin - Stevens Point	224	158	0	66
University of Wisconsin - Stout	195	44	59	92
University of Wisconsin - Whitewater	66	42	0	24
West North Central	32,031	20,594	6,762	4,675
Iowa	5,708	3,533	1,307	868
Drake University	192	103	0	89
Iowa State University	2,834	1,968	849	17
Loras College	23	23	0	0
Maharishi International University	64	64	0	0
Teikyo Marycrest College	27	27	0	0
Univ of Osteopathic Med & Health Sci	78	0	0	78
University of Iowa	2,376	1,274	458	644
University of Northern Iowa	114	74	0	40
Kansas	5,822	3,536	1,299	987
Emporia State University	150	150	0	0
Fort Hays State University	77	77	0	0
Kansas State University	1,654	1,278	340	36

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Kansas, continued				
Pittsburg State University	204	204	0	0
University of Kansas	2,621	1,426	589	606
Washburn University of Topeka	29	29	0	0
Wichita State University	1,087	372	370	345
Minnesota	7,735	5,554	1,232	949
Bemidji State University	19	19	0	0
Mankato State University	343	318	0	25
Mayo Graduate School of Medicine	134	116	0	18
Moorhead State University	120	109	0	11
Saint Mary's College of Minnesota	1,273	1,033	0	240
St. Cloud State University	93	52	0	41
University of Minnesota	5,753	3,907	1,232	614
Missouri	7,529	4,392	1,901	1,236
Central Missouri State University	360	286	29	45
Kirksville College of Osteopathic Med	0	0	0	0
Lincoln University	32	32	0	0
Northeast Missouri State University	31	19	0	12
Northwest Missouri State University	37	37	0	0
Southeast Missouri State University	35	35	0	0
Southwest Missouri State University	161	114	0	47
St. Louis University	929	417	21	491
The University of Health Sciences	0	0	0	0
University of Missouri - Columbia	2,010	1,310	511	189
University of Missouri - Kansas City	807	543	0	264
University of Missouri - Rolla	1,216	325	891	0
University of Missouri - St Louis	323	323	0	0
Washington University	1,588	951	449	188
Nebraska	3,065	2,228	481	356
Creighton University	131	77	0	54
University of Nebraska - Lincoln	1,903	1,371	481	51
University of Nebraska - Omaha	665	665	0	0
University of Nebraska Medical Center	308	69	0	239
University of Nebraska at Kearney	58	46	0	12
North Dakota	985	757	183	45
North Dakota State University	630	484	132	14
University of North Dakota	355	273	51	31
South Dakota	1,187	594	359	234
South Dakota School of Mines and Tech	248	68	180	0
South Dakota State University	616	307	179	130
University of South Dakota	323	219	0	104
South Atlantic	77,115	48,256	18,736	10,121
Delaware	1,599	1,075	378	146
Delaware State College	37	37	0	0
University of Delaware	1,562	1,038	378	146
District of Columbia	9,253	6,494	2,088	671
Catholic University of America	892	456	280	156
Gallaudet University	27	0	0	27
George Washington University	4,670	2,722	1,685	263
Georgetown University	808	693	0	115
Howard University	738	534	123	81
The American University	2,042	2,042	0	0
University of the District of Columbia	76	47	0	29
Florida	15,949	9,300	4,274	2,375
Florida A & M University	160	89	41	30
Florida Atlantic University	1,003	555	385	63
Florida Institute of Technology	1,074	746	328	0
Florida International University	983	599	184	180
Florida State University	1,499	1,212	123	164
Nova University	1,429	1,237	0	192
University of Central Florida	1,398	590	700	108
University of Florida	3,961	2,075	1,396	490
University of Miami	1,315	859	330	126

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

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Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Florida, continued				
University of South Florida	2,732	923	787	1,022
University of West Florida	415	415	0	0
Georgia	9,426	5,572	2,865	989
Augusta College	50	50	0	0
Clark Atlanta University	387	387	0	0
Emory University	1,100	595	0	505
Fort Valley State College	78	78	0	0
Georgia College	251	217	0	34
Georgia Institute of Technology	3,548	893	2,655	0
Georgia Southern University	123	123	0	0
Georgia State University	1,263	1,025	0	238
Institute of Paper Science & Technology	73	0	73	0
Medical College of Georgia	190	84	0	106
Mercer University	158	32	122	4
Morehouse School of Medicine	4	4	0	0
University of Georgia	1,782	1,695	15	72
Valdosta State College	282	252	0	30
West Georgia College	137	137	0	0
Maryland	10,795	6,890	2,130	1,775
Coppin State College	37	37	0	0
Frostburg State University	69	69	0	0
Hood College	427	427	0	0
Johns Hopkins University	2,069	1,136	241	692
Loyola College	882	522	301	59
Morgan State University	98	98	0	0
Towson State University	581	368	0	213
Uniformed Serv Univ of the Hlth Science	100	71	0	29
University of Baltimore	295	295	0	0
University of Maryland - Baltimore Cnty	1,056	801	238	17
University of Maryland - College Park	3,961	2,549	1,350	62
University of Maryland Eastern Shore	115	115	0	0
University of Maryland at Baltimore	1,074	371	0	703
Washington College	31	31	0	0
North Carolina	11,074	7,269	2,031	1,774
Appalachian State University	240	212	0	28
Duke University	1,406	1,079	256	71
East Carolina University	510	344	0	166
North Carolina A & T State University	303	77	226	0
North Carolina Central University	89	89	0	0
North Carolina State Univ at Raleigh	3,317	1,920	1,310	87
Univ of North Carolina at Chapel Hill	3,277	2,293	60	924
Univ of North Carolina at Charlotte	794	474	179	141
Univ of North Carolina at Greensboro	655	351	0	304
University of North Carolina/Wilmington	79	79	0	0
Wake Forest University	252	231	0	21
Western Carolina University	152	120	0	32
South Carolina	4,356	2,650	1,211	495
Clemson University	1,992	1,094	816	82
Furman University	11	11	0	0
Medical University of South Carolina	187	173	0	14
University of Charleston, South Carolin	112	112	0	0
University of South Carolina	1,989	1,195	395	399
Winthrop College	65	65	0	0
Virginia	12,098	7,551	3,205	1,342
College of William and Mary	431	393	38	0
Eastern Virginia Medical School	126	126	0	0
George Mason University	2,450	1,914	319	217
Hampton University	135	83	0	52
Hollins College	10	10	0	0
Institute of Textile Technology	28	0	28	0
James Madison University	173	113	0	60
Old Dominion University	1,238	674	403	161
Radford University	192	141	0	51
University of Richmond	30	30	0	0
University of Virginia	1,992	1,217	716	59
Virginia Commonwealth University	1,850	1,150	10	690
Virginia Polytechnic Inst and State Uni	3,374	1,631	1,691	52
Virginia State University	69	69	0	0

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
West Virginia	2,565	1,455	556	554
Marshall University	298	198	0	100
University of Charleston	0	0	0	0
West Virginia Graduate College	515	408	61	46
West Virginia Institute of Technology	24	0	24	0
West Virginia School of Osteopathic Med	0	0	0	0
West Virginia University	1,728	849	471	408
East South Central	21,128	13,192	4,986	2,950
Alabama	6,651	3,670	1,810	1,171
Alabama A & M University	268	268	0	0
Alabama State University	14	14	0	0
Auburn University	1,901	1,171	601	129
Jacksonville State University	162	162	0	0
The University of Alabama	966	625	309	32
The University of Alabama at Birmingham	1,528	608	184	736
The University of Alabama in Huntsville	995	331	608	56
Troy State University in Montgomery	143	143	0	0
Tuskegee University	116	62	35	19
University of Montevallo	35	0	0	35
University of South Alabama	523	286	73	164
Kentucky	4,440	2,895	949	596
Eastern Kentucky University	192	192	0	0
Morehead State University	100	100	0	0
Murray State University	368	193	44	131
Spalding University	131	112	0	19
University of Kentucky	2,178	1,410	418	350
University of Louisville	1,203	645	487	71
Western Kentucky University	268	243	0	25
Mississippi	2,854	2,071	451	332
Jackson State University	263	263	0	0
Mississippi State University	1,166	796	354	16
Mississippi University for Women	19	0	0	19
University of Mississippi	799	564	97	138
University of Southern Mississippi	607	448	0	159
Tennessee	7,183	4,556	1,776	851
Austin Peay State University	41	41	0	0
East Tennessee State University	410	333	0	77
Fisk University	37	37	0	0
Meharry Medical College	60	60	0	0
Memphis State University	988	712	168	108
Middle Tennessee State University	464	464	0	0
Tennessee State University	242	217	25	0
Tennessee Technological University	336	152	184	0
University of Tennessee at Chattanooga	353	233	94	26
University of Tennessee at Knoxville	2,918	1,492	1,019	407
University of Tennessee, Memphis	308	131	0	177
Vanderbilt University	1,026	684	286	56
West South Central	48,815	29,401	12,377	7,037
Arkansas	2,183	1,384	383	416
Arkansas State University	404	291	0	113
University of Arkansas	1,027	644	383	0
University of Arkansas - Med Sci Campus	263	75	0	188
University of Arkansas at Little Rock	211	171	0	40
University of Central Arkansas	278	203	0	75
Louisiana	6,377	3,885	1,476	1,016
Grambling State University	14	14	0	0
Louisiana State University System	3,063	2,041	880	142
Louisiana Tech University	402	98	266	38
Loyola University in New Orleans	1	1	0	0
McNeese State University	139	120	19	0
Nicholls State University	50	50	0	0
Northeast Louisiana University	209	150	0	59
Northwest State University	164	45	0	119
Southeastern Louisiana University	46	46	0	0
Southern University A & M College	224	224	0	0

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

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Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Louisiana, continued				
Tulane University	1,337	643	181	513
University of Southwestern Louisiana	629	453	130	46
Xavier University	99	0	0	99
Oklahoma	5,238	3,018	1,436	784
East Central University	26	26	0	0
Northeastern State University	219	133	66	20
Oklahoma State University	1,914	1,252	631	31
Southwestern Oklahoma State University	17	17	0	0
University of Oklahoma	2,741	1,409	599	733
University of Tulsa	321	181	140	0
Texas	35,017	21,114	9,082	4,821
Abilene Christian University	104	85	0	19
Angelo State University	138	138	0	0
Baylor College of Dentistry	53	7	0	46
Baylor College of Medicine	327	262	0	65
Baylor University	411	308	0	103
Corpus Christi State University	273	184	0	89
East Texas State University	340	340	0	0
Incarnate Word College	152	69	0	83
Lamar University-Beaumont	516	149	308	59
Midwestern State University	177	177	0	0
Prairie View A & M University	147	114	33	0
Rice University	852	568	284	0
Sam Houston State University	355	355	0	0
Southern Methodist University	950	419	531	0
Southwest Texas State University	760	626	0	134
St. Mary's University	213	158	55	0
Stephen F. Austin State University	258	231	0	27
Sul Ross State University	54	54	0	0
Tarleton State University	44	44	0	0
Texas A & I University	415	188	227	0
Texas A & M University	5,271	3,435	1,815	21
Texas Christian University	162	140	0	22
Texas College of Osteopathic Medicine	76	0	0	76
Texas Southern University	222	222	0	0
Texas Tech University	1,639	1,108	435	96
Texas Woman's University	1,599	518	0	1,081
The University of Texas - Pan American	19	19	0	0
Trinity University	137	31	0	106
Univ of Texas Hlth Sci Ctr San Antonio	519	157	0	362
Univ of Texas Hlth Sci Ctr at Houston	1,066	495	0	571
Univ of Texas MD Anderson Cancer Center	0	0	0	0
Univ of Texas Med Branch at Galveston	387	139	0	248
Univ of Texas SW Medical Ctr at Dallas	429	321	28	80
Univ of Texas at Arlington	2,220	1,039	941	240
University of Central Texas	212	212	0	0
University of Houston - Victoria	28	28	0	0
University of Houston at Clear Lake Cit	1,339	1,025	213	101
University of Houston-University Park	3,210	1,775	1,310	125
University of North Texas	1,671	1,507	52	112
University of Texas at Austin	5,192	2,600	2,115	477
University of Texas at Dallas	1,201	766	236	199
University of Texas at El Paso	927	396	359	172
University of Texas at San Antonio	428	298	130	0
University of Texas at Tyler	225	194	0	31
University of Texas of the Permian Basi	54	54	0	0
West Texas State University	245	141	30	74
Mountain	31,137	19,890	8,019	3,228
Arizona	7,791	5,059	2,092	640
Arizona State University	3,401	1,882	1,274	245
Northern Arizona University	900	763	0	137
University of Arizona	3,490	2,414	818	258
Colorado	9,890	6,011	2,663	1,216
Colorado School of Mines	889	630	259	0
Colorado State University	2,094	1,414	468	212
National Technological University	695	156	539	0
University of Colorado	4,909	2,788	1,387	734
University of Denver	855	799	10	46
University of Northern Colorado	448	224	0	224

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

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Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
Idaho	1,568	985	369	214
Idaho State University	505	242	49	214
University of Idaho	1,063	723	340	0
Montana	1,324	1,060	197	67
Montana College Mineral Sci & Technolog	109	6	80	23
Montana State University	622	466	117	39
University of Montana	593	588	0	5
Nevada	1,530	991	365	174
University of Nevada at Las Vegas	521	308	113	100
University of Nevada at Reno	1,009	683	252	74
New Mexico	3,570	2,340	963	267
Eastern New Mexico University	110	93	0	17
New Mexico Highlands University	67	67	0	0
New Mexico Institute of Mining and Tech	260	191	69	0
New Mexico State University	1,320	825	446	49
University of New Mexico	1,813	1,164	448	201
Utah	4,549	2,851	1,169	529
Brigham Young University	1,070	803	213	54
University of Utah	2,136	1,133	599	404
Utah State University	1,343	915	357	71
Wyoming	915	613	181	121
University of Wyoming	915	613	181	121
Pacific	75,484	48,841	18,466	8,177
Alaska	814	529	233	52
University of Alaska Anchorage	205	53	100	52
University of Alaska Southeast	38	38	0	0
University of Alaska at Fairbanks	571	438	133	0
California	61,282	39,088	15,508	6,686
Azusa Pacific University	266	189	0	77
Biola University	156	156	0	0
Calif Poly State Univ at San Luis Obisp	351	213	138	0
Calif Sch of Prof Psych - Fresno	385	385	0	0
Calif Sch of Prof Psych - Los Angeles	495	495	0	0
Calif Sch of Prof Psych - San Diego	592	592	0	0
Calif Sch of Prof Psych-Berkeley/Alamed	528	528	0	0
Calif State Polytechnic Univ at Pomona	414	275	139	0
Calif State Univ at Dominguez Hills	559	442	61	56
Calif State Univ at Fullerton	1,201	860	265	76
Calif State Univ at Hayward	922	860	0	62
Calif State Univ at Long Beach	2,184	1,192	702	290
Calif State Univ at Los Angeles	1,081	625	19[illegible]	260
Calif State Univ at San Bernardino	210	178	0	32
Calif State University at Chico	460	395	15	50
Calif State University at Fresno	982	749	18	215
Calif State University at Northridge	1,304	585	568	151
Calif State University at Sacramento	1,116	664	307	145
Calif State University, Stanislaus	171	171	0	0
California Institute of Integral Studie	382	382	0	0
California Institute of Technology	1,152	719	433	0
California State Univ - Bakersfield	147	109	0	38
Chapman University	198	150	0	48
Charles R. Drew Univ of Medicine & Sci	0	0	0	0
Claremont Univ Center & Graduate School	573	573	0	0
Dominican College of San Rafael	128	128	0	0
Fuller Theological Seminary	352	352	0	0
Golden Gate University	215	215	0	0
Harvey Mudd College	13	0	13	0
Humboldt State University	382	314	63	5
John F Kennedy University	895	873	0	22
Loma Linda University	547	150	0	397
Loyola Marymount University	241	169	72	0
National University	778	595	183	0
Occidental College	3	3	0	0
Pacific Graduate School of Psychology	373	373	0	0

See explanatory information, if any, and SOURCE(S) at end of table.

Table 23. Graduate students in the science, engineering, and health fields in all institutions, by geographic division, State, institution, and area of study: 1992

Division, State, and institution	Total, all surveyed fields	Sciences, total	Engineering, total	Health fields
California, continued				
Pacific States University	17	5	12	0
Pepperdine University	1,040	1,040	0	0
RAND Graduate School of Policy Studies	55	55	0	0
San Diego State University	2,074	1,246	253	575
San Francisco State University	1,305	937	0	368
San Jose State University	2,190	1,103	845	242
Santa Clara University	1,226	608	618	0
Sonoma State University	202	114	0	88
Stanford University	4,659	2,142	2,401	116
The Fielding Institute	494	494	0	0
The Wright Institute	208	208	0	0
US International University	468	468	0	0
US Naval Postgraduate School	1,314	566	748	0
University of Calif at Berkeley	5,013	2,949	1,611	453
University of Calif at Davis	2,609	1,980	616	13
University of Calif at Los Angeles	4,215	2,490	781	944
University of Calif at Riverside	757	757	0	0
University of Calif at San Diego	1,884	1,384	411	89
University of Calif at San Francisco	1,085	270	29	786
University of Calif at Santa Barbara	1,558	1,066	460	32
University of Calif at Santa Cruz	671	621	50	0
University of California, Irvine	1,446	994	420	32
University of La Verne	385	176	0	209
University of Redlands	60	0	0	60
University of San Diego	185	38	0	147
University of San Francisco	200	78	94	28
University of Southern California	5,887	2,546	2,845	496
University of the Pacific	157	47	4	106
West Coast University	184	47	137	0
Hawaii	2,083	1,462	227	394
University of Hawaii at Manoa	2,083	1,462	227	394
Oregon	4,320	3,223	898	199
Oregon Grad Inst of Science & Technolog	291	183	108	0
Oregon Health Sciences University	121	120	0	1
Oregon State University	1,850	1,288	473	89
Pacific University	7	0	0	7
Portland State University	1,111	732	300	79
Southern Oregon State College	55	55	0	0
University of Oregon	845	845	0	0
University of Portland	40	0	17	23
Washington	7,005	4,561	1,600	844
Central Washington University	123	123	0	0
Eastern Washington University	298	252	0	46
Gonzaga University	16	0	16	0
Pacific Lutheran University	95	68	0	27
Saint Martin's College	22	0	22	0
Seattle University	248	140	108	0
University of Washington	4,487	2,774	1,129	584
Walla Walla College	9	9	0	0
Washington State University	1,414	981	325	108
Western Washington University	279	214	0	65
Whitworth College	14	0	0	14
Outlying Areas	2,850	1,838	210	802
Guam	32	32	0	0
University of Guam	32	32	0	0
Puerto Rico	2,818	1,806	210	802
Caribbean Center for Advanced Studies	299	299	0	0
Catholic University of Puerto Rico	56	0	0	56
Ponce School of Medicine	13	13	0	0
Univ of Puerto Rico Mayaguez Campus	495	285	210	0
Univ of Puerto Rico Rio Piedras Campus	1,250	1,120	0	130
University of Puerto Rico Med Sci Campu	705	89	0	616

NOTE: Includes medical schools

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

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Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
Total, all institutions	353,844	364,460	370,112	374,275	381,520	394,794	409,361	427,792
1 University of Wisconsin - Madison	5,181	5,169	5,234	5,335	5,506	5,675	5,912	6,117
2 University of Southern California	8,051	7,866	7,474	7,034	6,397	5,679	5,593	5,887
3 University of Minnesota	5,595	5,524	5,266	5,426	5,552	5,527	5,678	5,753
4 University of Michigan	4,554	4,655	4,863	4,863	5,003	5,195	5,188	5,514
5 The Ohio State University	4,739	5,050	5,088	5,178	5,132	5,193	5,439	5,510
6 Texas A & M University	3,795	4,019	4,194	4,409	4,635	4,927	4,977	5,271
7 University of Texas at Austin	4,641	4,688	4,390	4,420	4,436	4,717	4,971	5,192
8 Univ of Illinois at Urbana-Champaign	4,470	4,693	4,854	4,805	4,842	4,945	5,047	5,157
9 University of Calif at Berkeley	5,207	5,297	5,337	5,099	5,057	5,202	4,979	5,013
10 University of Colorado	3,148	3,378	3,617	3,598	3,783	4,133	4,493	4,909
Total, 1st 10 institutions	49,381	50,339	50,317	50,167	50,343	51,193	52,277	54,323
11 George Washington University	3,532	4,388	4,603	4,183	3,997	4,249	4,368	4,670
12 Stanford University	4,115	4,022	4,131	4,119	4,142	4,243	4,401	4,659
13 Rutgers the State University	4,034	4,163	4,036	4,018	4,093	4,294	4,375	4,548
14 University of Washington	4,179	4,080	4,070	4,196	4,128	4,290	4,454	4,487
15 Pennsylvania State University	3,745	4,097	3,981	4,188	4,295	4,238	4,347	4,351
16 Massachusetts Institute of Technology	4,045	4,085	3,982	3,951	4,165	4,207	4,243	4,270
17 University of Calif at Los Angeles	3,840	3,792	4,027	4,117	4,168	4,225	4,171	4,215
18 Purdue University	3,622	3,725	3,851	4,058	4,040	3,929	4,038	4,169
19 Indiana University	1,869	2,513	2,630	2,659	3,307	3,781	3,986	3,990
20 University of Pittsburgh	3,858	3,756	3,819	3,677	3,632	3,849	3,939	3,984
Total, 1st 20 institutions	86,220	88,898	89,427	89,333	90,310	92,498	94,579	97,646
21 University of Maryland - College Park	3,439	3,515	3,592	3,684	3,880	3,931	3,876	3,981
22 University of Florida	3,244	3,305	3,223	3,293	3,371	3,588	3,741	3,961
23 Cornell University	3,103	3,361	3,365	3,386	3,416	3,408	3,453	3,768
24 Harvard University	3,216	3,266	2,973	3,163	3,069	3,231	3,320	3,585
25 Wayne State University	2,333	2,491	2,480	2,624	2,930	3,155	2,954	3,572
26 Georgia Institute of Technology	2,271	2,554	2,666	2,677	2,766	2,972	3,326	3,548
27 University of Illinois at Chicago	2,638	2,813	2,728	2,835	3,036	3,083	3,309	3,523
28 University of Arizona	3,578	3,747	3,629	3,627	3,474	3,377	3,396	3,490
29 New York University	3,680	3,200	3,152	2,856	3,142	3,161	3,315	3,469
30 SUNY - Buffalo	2,738	2,823	3,063	3,150	3,125	3,294	3,446	3,413
Total, 1st 30 institutions	116,460	119,973	120,298	120,628	122,499	125,696	128,715	133,936
31 Arizona State University	2,378	2,389	2,482	2,759	2,946	2,995	3,133	3,401
32 Virginia Polytechnic Inst and State Uni	3,377	3,377	3,324	2,991	3,122	3,161	3,133	3,374
33 North Carolina State Univ at Raleigh	2,690	2,964	2,883	3,031	3,114	3,076	3,115	3,317
34 Michigan State University	2,868	3,087	2,947	2,845	3,051	2,993	3,083	3,293
35 Univ of North Carolina at Chapel Hill	2,428	2,539	2,632	2,669	2,963	3,086	3,101	3,277
36 University of Houston-University Park	1,622	1,895	1,898	1,655	2,082	2,578	3,209	3,210
37 University of Massachusetts	2,491	2,548	2,460	3,058	3,012	3,105	3,137	3,140
38 Louisiana State University System	2,475	2,389	2,459	2,405	2,333	2,582	2,846	3,063
39 Columbia Univ in the City of New York	3,065	3,126	2,990	2,895	2,945	2,869	2,972	3,023
40 University of Tennessee at Knoxville	2,419	2,464	2,368	2,535	2,735	2,865	2,784	2,918
Total, 1st 40 institutions	142,271	146,751	146,761	147,469	150,802	154,808	159,230	165,952
41 Iowa State University	2,542	2,574	2,618	2,674	2,640	2,711	2,775	2,834
42 Boston University	2,241	2,359	2,361	2,211	2,229	2,453	2,631	2,754
43 University of Oklahoma	2,138	2,154	2,354	2,213	2,260	2,402	2,527	2,741
44 University of Cincinnati	2,364	2,369	2,368	2,421	2,422	2,582	2,701	2,740
45 University of South Florida	1,155	1,304	1,259	1,688	1,817	2,184	2,334	2,732
46 University of Connecticut	2,025	2,163	2,270	2,282	2,290	2,510	2,550	2,658
47 University of Kansas	2,124	2,049	2,041	2,091	2,191	2,257	2,403	2,621
48 University of Calif at Davis	2,682	2,744	2,606	2,587	2,668	2,717	2,579	2,609
49 University of Pennsylvania	2,523	2,510	2,435	2,415	2,521	2,526	2,542	2,545
50 George Mason University	1,085	1,221	1,566	1,892	2,046	2,273	2,298	2,450
Total, 1st 50 institutions	163,110	166,218	168,641	169,943	173,886	179,423	184,570	192,636
51 University of Iowa	1,972	2,084	2,086	2,171	2,140	2,301	2,420	2,376
52 SUNY - Stony Brook	2,026	2,109	2,193	2,321	2,268	2,303	2,408	2,353
53 Syracuse University	2,108	2,188	2,138	2,195	2,135	2,154	2,164	2,331
54 Northeastern University	2,699	2,598	2,435	2,359	2,241	2,414	2,581	2,253
55 Univ of Texas at Arlington	1,806	1,858	1,874	1,882	1,910	2,001	2,067	2,220
56 University of Chicago	1,503	1,625	1,741	1,757	1,969	2,016	1,880	2,212
57 Calif State Univ at Long Beach	1,766	1,821	2,173	1,629	2,021	2,140	2,236	2,184
58 University of Kentucky	1,629	1,633	1,680	1,752	1,874	1,898	2,066	2,178
59 University of Utah	1,878	1,900	1,879	1,754	1,808	1,876	2,025	2,136
60 Colorado State University	1,722	1,756	1,804	1,870	1,864	1,870	2,010	2,094
Total, 1st 60 institutions	182,221	187,790	188,626	189,633	194,136	200,398	206,445	214,973

See explanatory information, if any, and SOURCE(S) at end of table.

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
61 University of Hawaii at Manoa	1,705	1,820	1,822	1,829	1,857	1,981	2,088	2,083
62 San Diego State University	1,874	1,893	1,830	1,798	1,941	1,869	1,938	2,074
63 Northwestern University	1,741	1,720	1,835	1,905	1,971	1,920	1,996	2,069
64 Johns Hopkins University	1,512	1,528	1,484	1,647	1,694	1,756	1,880	2,069
65 University of Massachusetts Lowell	1,805	1,932	2,151	2,088	1,582	2,059	2,049	2,053
66 The American University	1,720	1,800	1,645	1,371	1,476	1,559	1,856	2,042
67 Rensselaer Polytechnic Institute	1,761	1,841	1,778	1,868	1,795	1,852	2,036	2,040
68 Columbia University Teachers College	1,753	1,758	1,751	1,987	1,884	1,928	2,030	2,020
69 University of Missouri - Columbia	1,890	1,951	1,868	1,849	1,833	1,931	1,983	2,010
70 Clemson University	1,224	1,311	1,333	1,398	1,451	1,500	1,795	1,992
Total, 1st 70 institutions	199,206	205,144	208,143	207,169	211,820	218,751	225,898	235,425
71 University of Virginia	1,763	1,848	1,873	1,846	1,893	1,899	1,934	1,992
72 University of South Carolina	1,820	1,801	1,895	1,883	1,827	1,874	1,892	1,989
73 Illinois Institute of Technology	1,781	1,583	1,632	1,654	1,510	1,776	1,818	1,916
74 Oklahoma State University	1,439	1,529	1,577	1,542	1,690	1,721	1,813	1,914
75 University of Nebraska - Lincoln	1,359	1,351	1,407	1,415	1,457	1,558	1,756	1,903
76 Auburn University	1,227	1,303	1,340	1,391	1,517	1,699	1,844	1,901
77 University of Calif at San Diego	1,404	1,528	1,616	1,528	1,625	1,790	1,902	1,894
78 CUNY Graduate School and Univ Center	1,685	1,853	2,028	2,047	2,055	2,068	1,841	1,862
79 SUNY - Albany	1,123	1,153	1,168	1,077	1,088	1,284	1,384	1,858
80 Oregon State University	1,673	1,797	1,779	1,740	1,722	1,795	1,861	1,850
Total, 1st 80 institutions	214,280	220,890	222,458	223,092	227,804	236,195	243,943	254,494
81 Virginia Commonwealth University	998	1,165	1,298	1,411	1,490	1,758	1,850	1,850
82 Yale University	1,789	1,841	1,928	1,929	1,930	1,918	1,861	1,827
83 New Jersey Institute of Technology	1,907	2,102	2,419	2,658	2,647	2,283	1,848	1,820
84 University of New Mexico	1,533	1,558	1,685	1,823	1,692	1,791	1,810	1,813
85 University of Georgia	1,436	1,465	1,576	1,525	1,501	1,553	1,666	1,782
86 University of Wisconsin - Milwaukee	1,628	1,630	1,691	1,698	1,709	1,747	1,827	1,775
87 Case Western Reserve University	1,921	1,947	2,238	1,971	1,692	1,793	1,687	1,749
88 West Virginia University	1,412	1,339	1,242	1,352	1,398	1,522	1,643	1,728
89 Western Michigan University	1,253	1,345	1,540	1,392	1,342	1,479	1,691	1,690
90 Antioch University	0	0	0	1,133	1,019	1,146	1,593	1,677
Total, 1st 90 institutions	228,137	235,280	238,049	239,784	244,222	253,183	261,419	272,205
91 University of North Texas	1,244	1,202	1,158	1,218	1,221	1,208	1,152	1,671
92 Carnegie-Mellon University	1,419	1,535	1,512	1,563	1,609	1,657	1,656	1,671
93 Temple University	1,242	1,158	1,203	1,237	1,355	1,375	1,592	1,661
94 Kansas State University	1,345	1,409	1,450	1,505	1,533	1,532	1,579	1,654
95 Texas Tech University	1,143	1,071	1,077	1,044	1,167	1,293	1,464	1,639
96 University of Akron	1,337	1,398	1,448	1,505	1,526	1,570	1,609	1,607
97 Texas Woman's University	1,928	1,976	1,884	1,863	2,044	1,810	1,609	1,599
98 Washington University	1,075	1,195	1,320	1,372	1,430	1,584	1,505	1,586
99 University of Delaware	1,150	1,189	1,303	1,198	1,239	1,357	1,461	1,582
100 University of Calif at Santa Barbara	1,347	1,368	1,401	1,328	1,440	1,525	1,530	1,558
Total, 1st 100 institutions	241,367	248,781	251,785	253,637	258,786	268,092	276,576	288,415
101 Southern Illinois Univ at Carbondale	1,433	1,512	1,686	1,638	1,625	1,600	1,618	1,543
102 Polytechnic University	1,929	2,324	2,086	2,028	2,050	1,903	1,574	1,540
103 The University of Alabama at Birmingham	980	1,120	1,270	1,367	1,449	1,499	1,445	1,528
104 Long Island University	1,237	1,320	1,221	1,228	1,022	1,163	1,306	1,519
105 Florida State University	1,137	1,190	1,110	1,219	1,425	1,482	1,503	1,499
106 De Paul University	1,108	1,154	1,289	1,245	1,373	1,418	1,465	1,468
107 University of Rochester	1,218	1,253	1,285	1,317	1,361	1,398	1,421	1,454
108 University of California, Irvine	992	1,027	1,109	1,161	1,212	1,277	1,344	1,446
109 Drexel University	1,336	1,362	1,391	1,318	1,276	1,410	1,534	1,431
110 Nova University	720	436	1,260	1,202	1,143	1,108	1,260	1,429
Total, 1st 110 institutions	253,457	261,479	265,412	267,380	272,722	282,349	291,046	303,272
111 Washington State University	1,440	1,398	1,362	1,276	1,191	1,271	1,365	1,414
112 Duke University	1,060	1,166	1,216	1,283	1,299	1,368	1,407	1,406
113 University of Rhode Island	1,126	1,196	1,286	1,217	1,278	1,310	1,278	1,400
114 University of Central Florida	1,062	1,113	1,151	1,052	1,047	1,198	1,403	1,398
115 Princeton University	1,164	1,177	1,182	1,248	1,327	1,334	1,374	1,379
116 Utah State University	1,078	1,207	1,163	1,213	1,247	1,234	1,248	1,343
117 Tulane University	891	905	893	931	947	1,009	1,231	1,337
118 Stevens Institute of Technology	1,573	1,822	1,642	1,686	1,435	1,333	1,313	1,335
119 New Mexico State University	793	843	900	903	856	883	956	1,320
120 University of Miami	1,106	1,080	1,174	1,193	1,159	1,213	1,284	1,315
Total, 1st 120 institutions	264,750	273,186	277,381	279,362	284,506	294,522	303,906	316,919

See explanatory information, if any, and SOURCE(S) at end of table.

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
121 US Naval Postgraduate School	1,302	1,260	1,204	1,331	1,349	1,388	1,340	1,314
122 Georgia State University	884	926	928	984	1,068	1,111	1,149	1,263
123 Northern Illinois University	829	886	905	973	977	1,167	1,231	1,257
124 Univ of Puerto Rico Rio Piedras Campus	1,263	1,265	1,135	1,041	1,097	1,235	1,132	1,250
125 Old Dominion University	906	950	986	1,091	1,104	1,197	1,267	1,238
126 SUNY - Binghamton	1,159	1,131	1,106	1,161	1,199	1,182	1,214	1,231
127 Santa Clara University	1,580	1,665	1,619	1,642	1,494	1,293	1,222	1,226
128 Cleveland State University	989	940	1,008	1,104	1,060	1,125	1,179	1,220
129 University of Missouri - Rolla	1,159	1,246	1,282	1,239	1,231	1,224	1,261	1,216
130 University of Louisville	986	977	1,038	1,126	1,141	1,115	1,156	1,203
Total, 1st 130 institutions	275,787	284,429	288,592	291,054	296,228	306,559	316,057	329,337
131 University of Texas at Dallas	946	963	975	1,088	1,169	1,192	1,149	1,201
132 Wright State University	743	759	861	921	961	993	1,144	1,190
133 Mississippi State University	949	927	1,044	1,075	1,090	1,087	1,165	1,166
134 New School for Social Research	1,273	1,135	1,103	1,080	1,086	984	908	1,164
135 California Institute of Technology	998	992	965	1,010	1,065	1,088	1,125	1,152
136 Tufts University	765	744	854	982	1,002	996	1,044	1,150
137 Lehigh University	984	1,017	944	974	1,018	764	1,022	1,114
138 Portland State University	630	676	692	778	815	918	1,051	1,111
139 Emory University	704	743	752	769	852	1,013	986	1,100
140 Wichita State University	758	772	896	905	881	972	945	1,087
Total, 1st 140 institutions	284,515	293,157	297,678	300,636	306,147	316,566	326,596	340,772
141 Pace University	1,079	1,375	1,181	1,121	1,155	1,094	1,081	1,075
142 University of Maryland at Baltimore	716	819	812	827	921	965	1,069	1,074
143 Florida Institute of Technology	1,025	1,053	1,103	999	1,024	894	1,028	1,074
144 Kent State University	880	899	901	911	961	1,029	1,059	1,071
145 Fairleigh Dickinson University	1,252	794	1,027	993	859	912	1,005	1,070
146 Brigham Young University	1,000	1,005	971	793	659	617	976	1,070
147 Univ of Texas Hlth Sci Ctr at Houston	655	690	703	749	832	919	962	1,066
148 University of Calif at San Francisco	872	949	994	1,033	1,036	1,038	1,035	1,065
149 University of Idaho	775	778	837	887	960	1,048	1,068	1,063
150 University of Maryland - Baltimore Cnty	419	563	507	831	835	913	1,026	1,056
Total, 1st 150 institutions	293,188	302,082	306,714	309,780	315,389	325,995	338,905	351,456
151 University of Arkansas	971	943	958	858	857	911	943	1,027
152 Vanderbilt University	753	739	795	839	1,001	998	1,016	1,026
153 Ohio University	897	930	998	1,000	986	1,004	1,014	1,026
154 New York Institute of Technology	898	928	884	948	961	939	887	1,025
155 University of Nevada at Reno	557	514	616	650	744	841	889	1,009
156 Florida Atlantic University	446	475	499	512	490	742	860	1,003
157 The University of Alabama in Huntsville	609	627	742	828	940	970	1,051	995
158 Memphis State University	943	979	820	846	888	896	952	988
159 The University of Alabama	682	734	775	714	768	809	901	986
160 Florida International University	0	0	0	580	703	771	893	983
Total, 1st 160 institutions	299,944	308,951	313,801	317,553	323,727	334,874	346,311	361,484
161 Southern Methodist University	736	770	895	974	952	901	815	950
162 Villanova University	1,001	1,061	979	958	902	844	959	938
163 St. Louis University	776	779	744	777	804	800	870	929
164 University of Texas at El Paso	737	676	703	738	701	766	799	927
165 University of Wyoming	813	760	759	717	802	851	928	915
166 Northern Arizona University	726	612	689	729	804	953	939	900
167 Catholic University of America	1,081	1,037	1,032	980	916	940	883	892
168 Colorado School of Mines	616	803	774	709	679	679	781	889
169 Adelphi University	1,012	971	902	871	943	948	752	883
170 University of Notre Dame	667	658	672	745	752	799	804	872
Total, 1st 170 institutions	308,109	317,078	321,950	325,742	331,982	343,355	354,841	370,579
171 Brown University	757	797	788	801	785	769	781	859
172 University of Denver	731	663	652	691	644	981	991	855
173 Rice University	757	795	840	750	789	800	825	852
174 University of Oregon	757	740	754	794	776	776	822	845
175 University of Maine	523	538	614	649	667	660	708	811
176 Georgetown University	1,251	1,259	1,022	884	886	714	750	808
177 University of Missouri - Kansas City	629	718	866	745	768	812	790	807
178 University of Mississippi	566	640	601	709	750	739	805	799
179 Worcester Polytechnic Institute	708	773	694	711	680	725	865	786
180 University of Toledo	786	729	726	583	666	700	751	784
Total, 1st 180 institutions	315,574	324,730	329,507	333,059	339,393	351,031	362,927	378,785

See explanatory information, if any, and SOURCE(S) at end of table.

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
181 Saint John's University	586	677	620	620	628	692	705	778
182 Marquette University	708	764	828	819	814	815	808	772
183 University of Calif at Riverside	769	727	735	701	672	711	733	757
184 Loyola University of Chicago	562	561	580	587	608	723	754	753
185 Oakland University	559	602	622	652	701	668	750	751
186 University of New Hampshire	551	570	584	634	634	674	697	744
187 University of Dayton	654	806	947	808	706	804	788	739
188 Howard University	947	842	896	868	751	781	726	738
189 University of Vermont	616	630	605	650	618	625	648	716
190 University of Puerto Rico Med Sci Campu	453	411	460	558	601	603	566	705
Total, 1st 190 institutions	321,979	331,320	336,384	339,956	346,126	358,127	370,102	386,238
191 University of Detroit Mercy	503	540	579	526	588	564	668	705
192 Boston College	511	523	521	538	614	623	678	680
193 University of Calif at Santa Cruz	433	455	462	455	555	608	628	671
194 Univ of North Carolina at Greensboro	503	500	494	451	447	530	585	655
195 Yeshiva University	599	561	586	600	666	590	632	634
196 Illinois State University	465	449	541	557	567	523	570	633
197 North Dakota State University	589	614	574	620	615	560	615	630
198 University of Southwestern Louisiana	693	633	560	490	534	538	607	629
199 Montana State University	510	476	471	530	525	493	539	622
200 South Dakota State University	432	424	424	422	434	486	621	616
Total, 1st 200 institutions	327,217	336,495	341,596	345,145	351,671	363,642	376,245	392,713
201 University of Southern Mississippi	657	683	610	605	661	603	584	607
202 Bowling Green State University	487	509	519	584	578	560	574	604
203 Hahnemann University	282	391	394	494	406	506	572	594
204 University of Montana	470	435	430	421	456	497	525	593
205 Calif Sch of Prof Psych - San Diego	401	415	430	434	480	519	617	592
206 Air Force Institute of Technology	551	524	580	596	548	653	589	588
207 Fordham University	598	480	543	461	470	566	598	584
208 Claremont Univ Center & Graduate School	207	448	480	517	502	511	552	573
209 University of Alaska at Fairbanks	381	399	387	404	444	487	480	571
210 Seton Hall University	322	300	297	313	278	278	540	571
Total, 1st 210 institutions	331,573	341,079	346,266	349,954	356,494	368,822	381,876	398,590
211 Loma Linda University	649	537	453	489	464	459	468	547
212 Calif Sch of Prof Psych-Berkeley/Alamed	391	426	423	455	501	512	519	528
213 University of South Alabama	261	305	345	392	453	494	515	523
214 Ball State University	473	477	573	328	333	421	429	521
215 Univ of Texas Hlth Sci Ctr San Antonio	277	292	302	309	427	449	500	519
216 Lamar University-Beaumont	304	330	282	303	320	339	458	516
217 Michigan Technological University	334	383	398	417	442	464	483	510
218 East Carolina University	374	373	354	364	382	363	402	510
219 Idaho State University	266	257	336	338	445	476	444	505
220 Univ of Puerto Rico Mayaguez Campus	415	427	397	374	364	358	439	495
Total, 1st 220 institutions	335,317	344,886	350,129	353,723	360,625	373,157	386,533	403,764
221 Calif Sch of Prof Psych - Los Angeles	424	428	438	452	501	585	534	495
222 The Fielding Institute	449	447	471	434	470	473	478	494
223 Miami University	521	505	546	477	454	466	485	481
224 US International University	540	630	613	547	497	519	492	468
225 Hofstra University	516	507	553	580	599	549	508	462
226 SUNY - Coll of Env Science and Forestry	356	381	355	377	420	455	427	457
227 University of Northern Colorado	192	456	552	419	262	339	367	448
228 Duquesne University	283	308	315	299	314	380	401	445
229 Brandeis University	311	342	366	375	392	416	428	432
230 College of William and Mary	293	314	303	310	302	334	371	431
Total, 1st 230 institutions	339,202	349,202	354,641	357,993	364,836	377,675	391,024	408,377
231 Univ of Texas SW Medical Ctr at Dallas	265	276	257	298	316	320	355	429
232 Rush University	317	353	364	408	459	444	442	421
233 Union Institute	444	470	476	471	488	501	556	416
234 Baylor University	304	289	289	334	422	474	504	411
235 East Tennessee State University	208	241	262	356	318	343	390	410
236 Louisiana Tech University	290	279	242	227	263	230	301	402
237 Central Michigan University	397	399	363	316	312	298	335	390
238 Univ of Texas Med Branch at Galveston	198	235	248	213	231	226	355	387
239 Medical College of Ohio at Toledo	171	162	214	222	255	292	290	387
240 Clark Atlanta University	0	0	0	0	312	279	323	387
Total, 1st 240 institutions	341,794	351,906	357,356	360,838	368,212	381,082	394,875	412,417

See explanatory information, if any, and SOURCE(S) at end of table.

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
241 Calif Sch of Prof Psych - Fresno	166	194	202	207	235	251	366	385
242 Dartmouth College	293	308	298	339	352	339	362	381
243 Pacific Graduate School of Psychology	182	213	246	0	347	368	341	373
244 California Institute of Integral Studie	184	208	240	247	300	250	362	362
245 Sam Houston State University	352	376	391	373	328	343	362	355
246 University of North Dakota	360	356	341	327	332	326	301	355
247 Fuller Theological Seminary	176	188	245	280	295	338	343	352
248 East Texas State University	501	481	38	348	377	363	346	340
249 Tennessee Technological University	193	233	267	264	285	284	323	336
250 Indiana State University	268	262	286	270	329	270	337	333
Total, 1st 250 institutions	344,469	354,743	359,908	363,493	371,392	384,214	398,318	415,989
251 Thomas Jefferson University	72	74	115	118	137	158	269	328
252 Baylor College of Medicine	162	182	197	224	286	293	303	327
253 University of South Dakota	167	185	193	186	200	260	236	323
254 University of Missouri - St Louis	274	323	303	[illegible]	313	316	261	323
255 University of Tulsa	286	290	325	[illegible]	257	260	280	321
256 University of Tennessee, Memphis	142	160	182	194	207	215	213	308
257 University of Nebraska Medical Center	218	186	207	225	263	277	272	308
258 Caribbean Center for Advanced Studies	373	371	248	237	213	216	366	299
259 Marshall University	203	236	244	236	216	237	261	298
260 Oregon Grad Inst of Science & Technolog	146	152	155	178	148	188	213	291
Total, 1st 260 institutions	346,512	356,902	362,077	365,700	373,612	386,634	401,032	419,115
261 Andrews University	0	0	0	181	189	275	283	284
262 Clarkson University	343	348	319	320	308	312	286	279
263 Clark University	237	238	225	237	238	253	275	273
264 University of Arkansas - Med Sci Campus	210	218	222	195	172	197	226	263
265 New Mexico Institute of Mining and Tech	225	248	250	234	217	245	253	260
266 Stephen F. Austin State University	269	274	237	208	205	200	201	258
267 Wake Forest University	181	178	160	179	206	219	241	252
268 South Dakota School of Mines and Tech	209	202	232	236	274	259	274	248
269 Univ of Med and Dentistry of New Jersey	207	219	236	271	240	253	277	239
270 New York Medical College	380	344	386	391	290	257	203	227
Total, 1st 270 institutions	348,773	359,171	364,344	368,150	375,951	389,104	403,551	421,698
271 Golden Gate University	691	593	847	754	618	354	192	215
272 Northeast Louisiana University	187	175	185	186	188	195	200	209
273 The Wright Institute	145	154	154	161	174	207	199	208
274 Medical College of Georgia	157	161	174	179	187	179	180	190
275 Medical University of South Carolina	87	111	85	88	108	164	167	187
276 Forest Institute of Professional Psych	154	190	251	254	260	256	206	185
277 Bryn Mawr College	152	138	133	127	116	114	154	170
278 Texas Christian University	140	136	133	135	143	153	143	162
279 Florida A & M University	66	63	65	135	130	128	182	160
280 Mercer University	0	0	107	136	144	88	116	156
Total, 1st 280 institutions	350,552	360,892	366,478	370,305	378,019	390,942	405,290	423,542
281 Indiana University of Pennsylvania	0	0	0	63	103	123	140	158
282 SUNY - Health Sci Ctr at Brooklyn	79	80	83	93	100	108	115	158
283 University of the Pacific	87	124	141	165	156	144	154	157
284 CUNY Mt. Sinai Sch of Medicine	0	0	115	130	135	146	164	156
285 Biola University	171	168	160	166	173	190	188	156
286 Union College	251	311	209	175	133	144	158	153
287 Univ of Health Sci/The Chicago Med Sch	84	130	119	148	117	119	131	141
288 Chicago School of Prof Psych	100	103	130	176	144	158	134	139
289 Hampton University	107	94	119	143	124	127	110	135
290 Mayo Graduate School of Medicine	46	46	53	55	74	98	120	134
Total, 1st 290 institutions	351,477	361,957	367,607	371,619	379,278	392,299	406,704	425,029
291 Rockefeller University	115	121	117	117	121	128	128	134
292 Wesleyan University	114	117	121	121	115	121	128	132
293 Spalding University	138	132	167	167	151	149	140	131
294 Creighton University	144	139	150	165	136	130	116	131
295 Eastern Virginia Medical School	74	71	73	78	70	111	118	126
296 Alfred University	122	184	161	124	143	139	115	124
297 Oregon Health Sciences University	56	64	74	90	88	103	119	121
298 Medical College of Wisconsin	57	68	61	60	84	91	107	120
299 The Medical College of Pennsylvania	69	60	90	86	92	100	109	118
300 University of Maryland Eastern Shore	0	0	0	39	62	82	104	115
Total, 1st 300 institutions	352,366	362,913	368,621	372,666	380,340	393,453	407,888	426,281

See explanatory information, if any, and SOURCE(S) at end of table.

Table 24. Graduate science and engineering students in doctorate-granting institutions, ranked by 1992 total graduate science and engineering students: 1985-92

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Institutional ranking	1985	1986	1987	1988	1989	1990	1991	1992
301 University of Northern Iowa	101	107	91	89	83	102	117	114
302 Albany Medical College	77	92	93	110	100	86	87	114
303 Woods Hole Oceanographic Institution	112	125	120	113	0	92	102	113
304 Emerson College	0	0	0	69	74	58	72	102
305 Uniformed Serv Univ of the Hlth Science	99	100	108	116	126	123	118	100
306 Xavier University	0	0	0	0	57	61	91	99
307 SUNY - Health Sci Ctr at Syracuse	43	47	57	55	60	51	82	78
308 Univ of Osteopathic Med & Health Sci	0	0	0	0	0	68	74	78
309 Texas College of Osteopathic Medicine	51	58	60	59	70	79	89	76
310 Institute of Paper Science & Technology	99	91	95	69	45	57	70	73
Total, 1st 310 institutions	352,948	363,533	369,245	373,346	380,955	394,230	408,790	427,228
311 Philadelphia Coll of Pharmacy and Sci	53	58	55	52	46	61	60	66
312 Maharishi International University	0	0	0	31	68	77	76	64
313 Meharry Medical College	41	32	34	36	35	47	54	60
314 Catholic University of Puerto Rico	48	46	58	66	61	54	52	56
315 RAND Graduate School of Policy Studies	60	62	70	60	60	48	60	55
316 CUNY Herbert H. Lehman College	54	113	73	75	75	78	61	53
317 Baylor College of Dentistry	58	46	52	56	57	47	48	53
318 University of New England	0	0	0	0	0	29	41	43
319 Mass College of Pharmacy/Allied Health	65	65	40	47	39	41	46	41
320 Institute of Textile Technology	16	28	31	35	30	30	30	28
Total, 1st 320 institutions	353,343	363,983	369,658	373,804	381,426	394,742	409,318	427,747
321 SUNY College of Optometry	15	14	19	33	33	28	22	18
322 Ponce School of Medicine	0	0	0	21	22	19	15	13
323 Smith College	4	4	4	5	6	5	6	8
324 Morehouse School of Medicine	0	0	0	0	0	0	0	4
325 Phila College of Osteopathic Medicine	9	0	0	0	0	0	0	2
326 University of Massachusetts at Worceste	0	0	0	0	0	0	0	0
327 University of Massachusetts at Amherst	0	0	0	0	0	0	0	0
328 Rosemead Graduate School of Psychology	0	0	0	0	0	0	0	0
329 University of Oklahoma Health Sci Cente	0	0	0	0	0	0	0	0
330 University of New Orleans	0	0	0	0	0	0	0	0
Total, 1st 330 institutions	353,371	364,001	369,681	373,863	381,487	394,794	409,361	427,792
331 Heed University	0	0	0	0	0	0	0	0
332 Kirksville College of Osteopathic Med	3	7	0	0	0	0	0	0
333 Chicago College of Osteopathic Medicine	0	0	0	0	0	0	0	0
334 Univ of Texas MD Anderson Cancer Center	0	0	0	0	0	0	0	0
335 NE Ohio Universities College of Medicin	0	0	0	0	0	0	0	0
336 Atlanta University	436	425	406	389	0	0	0	0
337 University of Dallas	0	0	0	0	0	0	0	0
338 Coll of Osteopathic Med of the Pacific	0	0	0	0	0	0	0	0
339 Desert Research Institute	0	0	0	0	0	0	0	0
340 University of Oklahoma Norman Campus	0	0	0	0	0	0	0	0
Total, 1st 340 institutions	353,810	364,433	370,087	374,252	381,487	394,794	409,361	427,792
341 Oklahoma State Univ College of Osteo Me	0	0	0	0	0	0	0	0
342 George Peabody College for Teachers	0	0	0	0	0	0	0	0
343 Univ of Illinois Med Center - Chicago	0	0	0	0	0	0	0	0
344 The University of Health Sciences	0	0	0	0	0	0	0	0
345 Providence College	0	0	0	0	0	0	0	0
346 Oral Roberts University	34	27	25	23	33	0	0	0
347 West Virginia School of Osteopathic Med	0	0	0	0	0	0	0	0
348 Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
Total, 1st 348 institutions	353,844	364,460	370,112	374,275	381,520	394,794	409,361	427,792

NOTE: Includes medical schools

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 25. Science and engineering postdoctoral appointees in doctorate-granting institutions, by field: 1985-92

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Field	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	22,354	23,697	24,878	26,123	28,049	29,909	31,249	33,187
Total, science and engineering fields	16,872	17,847	18,770	19,688	20,878	21,813	22,915	24,024
Sciences, total	15,519	16,449	17,327	18,004	18,970	19,873	20,660	21,680
Physical sciences	4,495	4,808	4,941	5,178	5,348	5,557	5,678	5,772
Astronomy	138	133	125	147	186	184	210	208
Chemistry	2,995	3,149	3,234	3,420	3,456	3,629	3,647	3,573
Physics	1,320	1,494	1,548	1,578	1,677	1,716	1,798	1,954
Physical sciences, n.e.c.	42	32	34	33	29	28	23	39
Earth, atmospheric, & ocean sciences	375	417	420	499	459	607	645	709
Atmospheric sciences	48	43	58	71	58	57	59	64
Geosciences	226	247	239	279	274	359	391	418
Oceanography	79	98	81	116	107	170	161	186
Earth, atmos., & ocean sci., n.e.c.	22	29	42	33	20	21	34	41
Mathematical sciences	226	201	228	280	223	247	206	201
Computer sciences	68	72	99	91	78	71	127	149
Agricultural sciences	373	409	441	454	512	529	575	634
Biological sciences	9,136	9,701	10,364	10,686	11,449	11,963	12,550	13,287
Anatomy	310	342	332	377	460	462	509	501
Biochemistry	1,858	1,985	2,113	2,078	2,216	2,174	2,123	2,161
Biology	1,123	1,083	1,173	1,223	1,277	1,358	1,398	1,477
Biometry/epidemiology	59	93	74	70	100	97	100	125
Biophysics	101	133	116	124	138	118	156	176
Botany	355	373	408	443	445	440	475	488
Cell biology	723	812	899	884	966	1,272	1,282	1,325
Ecology	37	37	39	33	52	57	49	60
Entomology/parasitology	139	143	162	176	219	212	236	223
Genetics	377	428	493	504	535	614	625	680
Microbio., immunology, & virology	1,168	1,255	1,310	1,405	1,539	1,492	1,768	1,846
Nutrition	202	185	177	141	130	134	175	203
Pathology	619	709	765	819	899	1,037	1,094	1,192
Pharmacology	855	882	902	991	1,033	1,104	1,153	1,291
Physiology	833	904	1,019	1,034	1,067	1,043	1,060	1,137
Zoology	199	206	198	188	199	165	163	166
Biosciences, n.e.c.	178	131	184	196	174	184	184	236
Psychology	498	520	458	497	535	463	504	521
Social sciences	348	321	376	319	366	436	375	407
Agricultural economics	31	35	31	20	28	57	39	49
Anthropology (cultural & social)	57	52	54	56	74	64	50	62
Economics (except agricultural)	19	22	36	9	33	37	40	22
Geography	9	10	15	22	22	19	15	22
Linguistics	26	21	42	36	30	38	14	26
Political science	44	66	54	49	41	66	78	98
Sociology	92	84	93	73	75	94	90	70
Sociology/anthropology	2	1	3	1	0	2	1	3
Social sciences, other	68	30	48	53	63	59	48	57
Engineering, total	1,353	1,398	1,443	1,684	1,908	1,940	2,255	2,344
Aerospace engineering	51	48	43	48	38	67	77	92
Agricultural engineering	15	17	29	31	38	31	33	37
Biomedical engineering	47	52	44	47	67	74	68	71
Chemical engineering	273	295	310	423	466	551	578	554
Civil engineering	122	140	175	203	182	168	185	187
Electrical engineering	182	174	176	186	193	241	333	307
Engineering science	90	67	41	38	74	76	117	71
Industrial eng./management sci.	18	25	26	32	32	6	27	38
Mechanical engineering	207	239	216	216	302	219	329	355
Metallurgical/materials eng.	245	250	283	325	323	365	394	458
Nuclear engineering	31	31	20	17	36	30	29	34
Engineering, other	72	60	80	118	157	112	87	140
Total, health fields	5,482	5,850	6,108	6,435	7,171	8,096	8,334	9,163
Clinical fields	4,264	4,572	4,753	4,944	5,646	6,510	6,636	7,339
Dental sciences	201	102	77	94	45	61	112	75
Nursing	17	16	49	30	36	23	28	28
Pharmaceutical sciences	318	384	407	484	549	488	475	486
Preventive medicine/community health	185	223	188	163	192	218	228	256
Speech pathology/audiology	18	12	25	26	28	27	40	46
Veterinary sciences	69	100	112	132	111	102	119	117
Other health fields	410	441	497	562	564	667	696	816

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

SURVEY MATERIALS

Item *Page*

Instructions for Survey of Graduate Science and Engineering Students and Postdoctorates, Fall 1992 .... **50**

Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992: Departmental or Program Data Sheet (NSF Form 812) **52**

Crosswalk between NSF discipline codes and the NCES Classification of Instructional Programs **54**

INSTRUCTIONS

FOR THE NSF SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

PURPOSE OF THE SURVEY

The survey provides a comprehensive picture of the training of future scientists and engineers in the Nation's graduate schools. Data are used by Congress and the executive branch during budget preparation, and by State government agencies and other analysts to assess the future supply of science and engineering (S&E) personnel.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary and failure to provide some or all of the information will in no way adversely affect your institution.

The average time required for questionnaire completion is two hours. Response burden comments should be directed to Herman Fleming at NSF, (202) 357-9520.

Students included in this survey

Count as graduate students persons enrolled for credit in any S&E master's or Ph.D. degree program in fall 1992. Report M.D., D.O., D.V.M., or D.D.S. candidates, interns, and residents in Items 5 through 7 **only** if they are concurrently working for an S&E master's or Ph.D. or are enrolled in a joint medical/Ph.D. program. Individuals who already hold graduate or medical degrees and are working on another master's or Ph.D. degree are considered graduate students (Items 5 through 7), not postdoctorates (Item 8).

Include S&E students performing thesis or dissertation research away from the campus (for example, at Government- and contractor-owned facilities) in the United States as long as they are enrolled for credit in an advanced-degree program.

All data should be reported in terms of headcounts, not full-time equivalents (FTEs).

Students excluded from this survey

Exclude students enrolled in a foreign country (at a branch or extension center), as well as non-matriculated students.

Students enrolled in multiple departments/institutions

A student should be reported in only **one** department. Students enrolled in interdisciplinary/interinstitutional programs should be counted only once, by their "home" department and institution.

INCOMPLETE DATA

Please write "unavailable" or "unknown" in data cells as applicable. On this form, "N/A" means "not applicable." Data cells left blank are presumed to be zeroes.

ITEM 5: FULL-TIME STUDENTS

Report the total number of full-time degree-seeking students in line 6(K). Then, in lines 1-6, count each full-time student **only once** by **largest** source of support so that all columns and rows in Item 5 sum to the full-time total in line 6(K). In Item 5, count only graduate students pursuing an S&E degree according to a full-time schedule; this may include any combination of study, teaching, and research, depending on your institution's policy and definition of full-time status. For example, many institutions base full-time status on the number of credit hours taken; others calculate full-time according to the amount of fees paid by the student.

Mechanisms of Support – Lines (1) through (5)

A **fellowship**, line (1), is any competitive award (often from a national competition) made to a student which requires no work of the recipient. A **traineeship**, line (2), is an educational award given to a student selected by the university. An **assistantship** should be classified as **research**, line (3), or **teaching**, line (4), depending on assigned duties; e.g., a student devoting most of his/her time to teaching should be reported on line (4). All other full-time students, including members of the armed forces whose tuition is paid by the Department of Defense, and self-supported students, should be reported on line (5).

Federal sources of support – Columns (A) through (F)

Department of Defense (DOD) – Column (A): Sources include the Departments of the Army, Navy, or Air Force, as well as programs within the Office of the Secretary of Defense. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (F), "Other Federal sources."

Department of Health and Human Services (HHS) – Columns (B) and (C): Report students with support from the institutes or divisions of the National Institutes of Health (NIH) under column (B); support from all other components of HHS should be reported in column (C). Refer to the organizational roster under "Definitions."

National Science Foundation (NSF) – Column (D): Report students receiving NSF graduate fellowships and minority fellowships, as well as those supported under NSF research grants.

U.S. Department of Agriculture (USDA) – Column (E): Include research assistants working on projects financed out of Hatch, McIntyre-Stennis, or Smith-Lever formula funds, competitive research grants, and institution fellowship/training grants.

Other Federal Sources – Column (F): Report students receiving support from Federal agencies other than those listed in columns (A) through (E), such as the Fulbright program, the G.I. Bill, Department of Education, and Department of Energy programs. Students primarily supported by Federal loans should be reported in column (J): self-supported students.

Non-Federal Sources of Support – Columns (G) through (I)

Institutional support – Column (G): Report students supported from YOUR institution, including those receiving tuition waivers. State and local government support should also be reported in this column. Students primarily supported with funds from the Federal government, such as training grants, however, should be reported under the appropriate Federal agency.

Foreign sources – Column (H): Report students supported from any non-U.S. source, such as foreign governments, industrial firms, or specialized agencies of the United Nations.

Other U.S. sources – Column (I): Report students supported from nonprofit institutions, private industry, and all other non-Federal U.S. sources not included in columns (G) or (J).

Self-supported students – (Column J): Report both foreign and U.S. citizen students whose largest source of support comes from ANY loans (including Federal loans) or from personal or family financial contributions. **These students must be included in the full-time total, line 6(K).**

Women – Line (7)

Report all female students by the source of their primary support. In each column, data on line (7) should not exceed the total on line (6).

First-year students – Lines (8) and (9)

A first-year student has enrolled for the first time in the program in which he/she is pursuing a degree as of the beginning of the fall term in 1992. All other students should be considered to be beyond their first year.

ITEM 6: PART-TIME STUDENTS

Report all part-time students in Item 6, regardless of their source of support. Part-time students are pursuing an S&E graduate degree but NOT on a full-time schedule. Consider students part-time according to your own institution's definition of part-time status.

ITEM 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS

Report all U.S. citizens and permanent residents in columns (A) through (F), and count each student only once according to his/her racial/ethnic category as defined by the Bureau of the Census, listed under "Definitions."

Count foreign students, i.e., those holding temporary visas, only **once** in column (G), regardless of race/ethnicity. Native residents of a U.S. possession and applicants for U.S. citizenship holding green cards, however, should be reported as U.S. citizens.

Total full- and part-time enrollments reported in Item 7 should match those reported in Items 5 and 6, respectively.

ITEM 8: POSTDOCTORATES AND NONFACULTY RESEARCH STAFF WITH DOCTORATES

Postdoctorates – Columns (A) through (F): Include individuals with S&E Ph.D.'s, M.D.'s, D.D.S.'s or D.V.M.'s (including foreign degrees equivalent to U.S. doctorates) who devote their **primary effort to their own research training through research activities or study** in the department under temporary appointments carrying no academic rank. These individuals may contribute to the academic program through seminars, lectures, or working with graduate students. Such postdoctorates may have different titles at different institutions, e.g., "Postdoctoral Scholar," "Research Associate," "Postdoctoral Fellow," or "Postgraduate Researcher." Exclude, however, clinical fellows and those with appointments in residency training programs in medical and health professions, **unless research training under the supervision of a senior mentor is the primary purpose** of the appointment.

Report postdoctorates by source of support in columns (A) through (D), with the total number of postdoctorates reported in column (E). Of this total, report the number who are foreign in column (F).

Other non-faculty research staff with doctorates – Column (G): Include all doctoral scientists and engineers who are involved principally in research activities but are not considered either postdoctoral appointees or members of the regular faculty.

On line (2), report the number of women in each category. On line (3), report those postdoctorates and nonfaculty research staff who hold first professional medical degrees (M.D., D.D.S., D.O., D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

DEFINITIONS

- **National Institutes of Health Organizational Roster**
  Item 5, column (B)

  National Institute on Aging
  National Institute on Allergy and Infectious Disease
  National Institute of Arthritis and Musculoskeletal and Skin Diseases
  National Cancer Institute
  National Institute of Child Health and Human Development
  National Institute on Deafness and Other Communication Disorders
  National Institute of Dental Research
  National Institute of Diabetes and Digestive and Kidney Diseases
  National Institute of Environmental Health Sciences
  National Eye Institute
  National Institute of General Medical Sciences
  National Heart, Lung and Blood Institute
  National Institute of Neurological Disorders and Stroke
  National Library of Medicine
  National Center for Human Genome Research
  National Center for Nursing Research
  National Center for Research Resources
  Fogarty International Center

- **Other HHS Administrative Units**
  Item 5, column (C)

  Alcohol, Drug Abuse and Mental Health Administration
    National Institute on Alcohol Abuse and Alcoholism
    National Institute on Drug Abuse
    National Institute of Mental Health
  Centers for Disease Control
    National Institute for Occupational Safety and Health
  Food and Drug Administration
  Health Resources and Services Administration
  Office of Human Development

- **Racial/Ethnic Categories for U.S. Citizens defined by the Bureau of the Census (Item 7)**

  Black, non-Hispanic: Persons having origins in any of the black racial groups (except those of Hispanic origin).

  American Indian or Alaskan native: Persons having origins in any of the original peoples of North America.

  Asian or Pacific Islander: Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

  Hispanic: Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

  White, non-Hispanic: Persons having origins in any of the original peoples of Europe, North Africa, or the Middle East, except those of Hispanic origin.

FOR FURTHER INFORMATION . . .

If you have any questions about the survey, please contact Pamela Krones of Quantum Research Corporation at (301) 657-3070 [fax (301) 657-3862].

UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 1993.

NSF Form 812 Oct. 92

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992

Form approved
OMB No. 3145-0062
Appr. Exp. 8/31/93

DEPARTMENT OR PROGRAM DATA SHEET

Due date: January 29, 1993

ITEMS 1-4. IDENTIFYING INFORMATION

1. Institution Name: ______________________________

2. Name of S&E department or program:

____

If changed since last year, please indicate previous name and whether this represents a merger, split, or expanded program:

____

3. Person in department (or program) preparing this form:

Name: ______________________________

Title: ______________________________

Phone: (   ) ______________________________

4. Highest graduate degree available in this department or program (CHECK ONE): (1) Doctorate ________ (2) Master's ________ (3) No Graduate Degree Offered ________

Institution and department code (LEAVE BLANK)

Report all data on a headcount basis (use whole numbers, *not* fractions, decimals, FTEs, etc.). If your department does not enroll graduate students, please go to item 8.

ITEM 5. NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1992.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE									SELF-SUPPORTED STUDENTS (including loans and family sources)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J))
		FEDERAL SOURCES (excluding loans)						NON-FEDERAL SOURCES				
			HHS									
	Line No	Department of Defense (A)	National Institutes of Health (B)	Other HHS (C)	National Science Foundation (D)	Department of Agriculture (E)	Other Federal sources (F)	Institutional support (including State and local government) (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate Fellowships	(1)										■	
Graduate Traineeships	(2)										■	
Graduate Research Assistantships	(3)										■	
Graduate Teaching Assistantships	(4)	■							■		■	
Other Types of Support	(5)											
FULL-TIME TOTAL*	(6)											
Of the students in line (6), how many in each data cell are WOMEN?	(7)											

FIRST-YEAR STUDENTS	(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6)).	
FIRST-YEAR WOMEN STUDENTS	(9)	Of the first-year students on line (8), how many are WOMEN?	

* The total from line (6) should be inserted in item (7), line (1), column (H)

ITEM 6. NUMBER OF **PART-TIME** GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992.		
PART-TIME TOTAL*	(1)	
Of the students on line (1), how many are WOMEN?	(2)	

*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7. **RACE/ETHNICITY** OF FULL-TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992.	Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? **Be sure to count each student only once.**		U.S. CITIZENS AND PERMANENT RESIDENTS						FOREIGN: temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
			Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other, unknown or declined to state (F)		
	FULL TIME, column (H), should equal item 5, line (6), column (K)	(1)								
	PART TIME, column (H), should equal item 6, line (1)	(2)								

ITEM 8. NUMBER OF **POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES** in fall 1992.		POSTDOCTORATES							OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
		SOURCE OF SUPPORT				TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)		
		Federal			Non-Federal (D)				
		Fellowships (A)	Traineeships (B)	Research grants (C)					
TOTAL	(1)								
Of the total in each cell of line (1), how many are WOMEN?	(2)								
Of the total in each cell of line (1), how many hold the M.D., D.O., D.D.S., or D.V.M. degree?	(3)								

Approximately how many personhours were required to complete this form? ☐

Explain variances from prior year's data or include other comments:

____

____

____

List other Federal sources (agencies) from item 5, column (F), and number of full-time students supported by each:

____

____

____

This questionnaire has been printed on recycled paper.

Survey of Graduate Students and Postdoctorates in Science and Engineering

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes is used to categorize science and engineering departments in the Survey of Graduate Students and Postdoctorates in Science and Engineering. Representative department names are shown under each of the discipline codes.

ENGINEERING

101 AEROSPACE ENGINEERING
    14.02 AEROSPACE, AERONAUTICAL, AND ARTRONAUTICAL ENGINEERING

102 AGRICULTURAL ENGINEERING
    14.03 AGRICULTURAL ENGINEERING

103 BIOMEDICAL ENGINEERING
    14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING

104 CHEMICAL AND RELATED ENGINEERING
    03.0509 WOOD SCIENCE
    14.07 CHEMICAL ENGINEERING
    14.32 POLYMER/PLASTICS ENGINEERING

105 CIVIL AND RELATED ENGINEERING
    04.02 ARCHITECTURE
    14.04 ARCHITECTURAL ENGINEERING
    14.08 CIVIL ENGINEERING
    14.0803 STRUCTURAL ENGINEERING
    14.0805 WATER RESOURCES ENGINEERING
    14.14 ENVIRONMENTAL/ENVIRONMENTAL HEALTH ENGINEERING

106 ELECTRICAL AND RELATED ENGINEERING
    14.09 COMPUTER ENGINEERING
    14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING

107 ENGINEERING SCIENCE AND ENGINEERING PHYSICS
    14.12 ENGINEERING PHYSICS
    14.13 ENGINEERING SCIENCE

108 INDUSTRIAL/MANUFACTURING ENGINEERING
    14.17 INDUSTRIAL/MANUFACTURING ENGINEERING
    14.27 SYSTEMS ENGINEERING
    14.30 ENGINEERING/INDUSTRIAL MANAGEMENT
    30.06 SYSTEMS SCIENCE

109 MECHANICAL AND RELATED ENGINEERING
    14.11 ENGINEERING MECHANICS
    14.19 MECHANICAL ENGINEERING

110 METALLURGICAL AND MATERIALS ENGINEERING
    14.06 CERAMIC SCIENCES AND ENGINEERING
    14.18 MATERIALS ENGINEERING
    14.20 METALLURGICAL ENGINEERING
    14.28 TEXTILE SCIENCES AND ENGINEERING
    14.31 MATERIALS SCIENCE
    40.0701 METALLURGY

111 MINING AND RELATED ENGINEERING
    14.15 GEOLOGICAL ENGINEERING
    14.16 GEOPHYSICAL ENGINEERING
    14.21 MINING AND MINERAL ENGINEERING

112 NUCLEAR ENGINEERING
    14.23 NUCLEAR ENGINEERING

113 PETROLEUM ENGINEERING
    14.25 PETROLEUM ENGINEERING

114 ENGINEERING, N.E.C.
    14.01 ENGINEERING, GENERAL
    14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING
    14.24 OCEAN ENGINEERING
    14.29 ENGINEERING DESIGN
    14.99 ENGINEERING, OTHER

PHYSICAL SCIENCES

201 ASTRONOMY
    40.02 ASTRONOMY
    40.03 ASTROPHYSICS

202 CHEMISTRY
    40.05 CHEMISTRY (see also 602)
    40.0507 POLYMER CHEMISTRY

203 PHYSICS
    40.08 PHYSICS (see also 605)
    40.0807 OPTICS
    40.0809 ACOUSTICS

204 PHYSICAL SCIENCES, N.E.C.
    40.01 PHYSICAL SCIENCES, GENERAL
    40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER
    40.99 PHYSICAL SCIENCES, OTHER

EARTH, ATMOSPHERIC, AND OCEAN SCIENCES

301 ATMOSPHERIC SCIENCES
    40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY

302 GEOSCIENCES
    40.06 GEOLOGICAL AND RELATED SCIENCES
    40.0703 EARTH AND PLANETARY SCIENCES

303 OCEAN SCIENCES
    26.0607 MARINE/AQUATIC BIOLOGY
    40.0702 OCEANOGRAPHY

304 EARTH, ATMOSPHERIC, AND OCEAN SCIENCES, N.E.C.

MATHEMATICAL SCIENCES

402 MATHEMATICS AND APPLIED MATHEMATICS
    27.01 MATHEMATICS
    27.03 APPLIED MATHEMATICS
    27.0302 OPERATIONS RESEARCH
    27.99 MATHEMATICS, OTHER
    30.08 MATHEMATICS AND COMPUTER SCIENCE

403 STATISTICS
    27.05 MATHEMATICAL STATISTICS
    52.0802 ACTUARIAL SCIENCE

COMPUTER SCIENCE

401 COMPUTER SCIENCE
    11.01 COMPUTER AND INFORMATION SCIENCES, GENERAL
    11.04 INFORMATION SCIENCES AND SYSTEMS
    11.07 COMPUTER SCIENCE
    52.1201 MANAGEMENT INFORMATION SYSTEMS
    52.13 MANAGEMENT SCIENCE

AGRICULTURAL SCIENCES (SEE ALSO 102 AND 801)

501 AGRICULTURAL SCIENCES
    02.01 AGRICULTURE/AGRICULTURAL SCIENCES
    02.02 ANIMAL SCIENCES
    02.03 FOOD SCIENCES
    02.04 PLANT SCIENCES
    02.05 SOIL SCIENCES
    02.99 AGRICULTURAL SCIENCES, OTHER
    03.01 NATURAL RESOURCES CONSERVATION
    03.02 CONSERVATION AND REGULATION
    03.03 FISHING AND FISHERIES SCIENCES AND MANAGEMENT
    03.05 FORESTRY AND RELATED SCIENCES
    03.06 WILDLIFE AND WILDLANDS MANAGEMENT
    03.99 CONSERVATION AND NATURAL RESOURCES, OTHER

BIOLOGICAL SCIENCES

601 ANATOMY
    26.0601 ANATOMY
    51.1301 MEDICAL ANATOMY

602 BIOCHEMISTRY
    26.0202 BIOCHEMISTRY
    51.1302 MEDICAL BIOCHEMISTRY

603 BIOLOGY
    26.01 BIOLOGY, GENERAL

604 BIOMETRY AND EPIDEMIOLOGY
    26.0614 BIOMETRICS
    26.0615 BIOSTATISTICS
    51.1303 MEDICAL BIOMATHEMATICS AND BIOMETRICS
    51.2203 EPIDEMIOLOGY

605 BIOPHYSICS
    26.0203 BIOPHYSICS
    51.1304 MEDICAL BIOPHYSICS/PHYSICS

606 BOTANY
    26.03 BOTANY (EXCLUDING 26.05 MICROBIOLOGY/BACTERIOLOGY – See 611)
    26.0305 PLANT PATHOLOGY
    26.0307 PLANT PHYSIOLOGY

- 607 CELL AND MOLECULAR BIOLOGY
  - 26.04 CELL AND MOLECULAR BIOLOGY
  - 26.0401 CELL BIOLOGY
  - 26.0402 MOLECULAR BIOLOGY
  - 51.1305 MEDICAL CELL BIOLOGY
  - 51.1309 MEDICAL MOLECULAR BIOLOGY
- 608 ECOLOGY
  - 26.0603 ECOLOGY
- 609 ENTOMOLOGY AND PARASITOLOGY
  - 26.0610 PARASITOLOGY
  - 26.0702 ENTOMOLOGY
- 610 GENETICS
  - 26.0613 GENETICS, PLANT AND ANIMAL
  - 26.0617 EVOLUTIONARY BIOLOGY
  - 51.1306 MEDICAL GENETICS
- 611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY
  - 26.05 MICROBIOLOGY/BACTERIOLOGY
  - 26.0618 BIOLOGICAL IMMUNOLOGY
  - 26.0619 VIROLOGY
  - 51.1308 MEDICAL MICROBIOLOGY
- 612 NUTRITION
  - 19.05 FOODS AND NUTRITION STUDIES
  - 26.0609 NUTRITIONAL SCIENCES
  - 51.1311 MEDICAL NUTRITION
- 613 PATHOLOGY
  - 26.0704 PATHOLOGY, HUMAN AND ANIMAL
  - 51.1312 MEDICAL PATHOLOGY
- 614 PHARMACOLOGY
  - 26.0612 TOXICOLOGY
  - 26.0705 PHARMACOLOGY, HUMAN AND ANIMAL
  - 51.1314 MEDICAL TOXICOLOGY
- 615 PHYSIOLOGY
  - 26.0706 PHYSIOLOGY, HUMAN AND ANIMAL
  - 51.1313 MEDICAL PHYSIOLOGY
- 616 ZOOLOGY
  - 26.07 ZOOLOGY
- 617 BIOSCIENCES, N.E.C.
  - 26.0616 BIOTECHNOLOGY RESEARCH
  - 26.0699 MISCELLANEOUS BIOLOGICAL SPECIALIZATIONS, OTHER
  - 26.99 BIOLOGICAL SCIENCES/LIFE SCIENCES, OTHER
  - 30.01 BIOLOGICAL AND PHYSICAL SCIENCES
  - 30.10 BIOPSYCHOLOGY

PSYCHOLOGY

- 801 PSYCHOLOGY, COMBINED
  - 42.01 PSYCHOLOGY, GENERAL
- 802 PSYCHOLOGY, EXCEPT CLINICAL
  - 42.03 COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS
  - 42.04 COMMUNITY PSYCHOLOGY
  - 42.07 DEVELOPMENTAL AND CHILD PSYCHOLOGY
  - 42.08 EXPERIMENTAL PSYCHOLOGY
  - 42.09 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
  - 42.11 PHYSIOLOGICAL PSYCHOLOGY/PSYCHOBIOLOGY
  - 42.16 SOCIAL PSYCHOLOGY
  - 42.17 SCHOOL PSYCHOLOGY
  - 42.99 PSYCHOLOGY, OTHER
  - 51.2301 ART THERAPY
  - 51.2303 HYPNOTHERAPY
  - 51.2705 PSYCHOANALYSIS
- 803 CLINICAL PSYCHOLOGY
  - 42.02 CLINICAL PSYCHOLOGY

SOCIAL SCIENCES

- 901 AGRICULTURAL ECONOMICS
  - 01.0101 AGRICULTURAL BUSINESS AND MANAGEMENT, GENERAL
  - 01.0102 AGRICULTURAL BUSINESS/AGRIBUSINESS OPERATIONS
  - 01.0103 AGRICULTURAL ECONOMICS
- 902 ANTHROPOLOGY (CULTURAL AND SOCIAL)
  - 45.02 ANTHROPOLOGY
  - 45.03 ARCHAEOLOGY
- 903 ECONOMICS
  - 45.06 ECONOMICS
  - 52.06 BUSINESS/MANAGERIAL ECONOMICS
- 904 GEOGRAPHY
  - 45.0701 GEOGRAPHY
  - 45.0702 CARTOGRAPHY
- 905 HISTORY AND PHILOSOPHY OF SCIENCE
  - 45.0804 HISTORY AND PHILOSOPHY OF SCIENCE
- 906 LINGUISTICS
  - 16.0102 LINGUISTICS
- 907 POLITICAL SCIENCE/PUBLIC ADMINISTRATION
  - 44.04 PUBLIC ADMINISTRATION
  - 44.05 PUBLIC POLICY ANALYSIS
  - 44.99 PUBLIC ADMINISTRATION AND SERVICES, OTHER
  - 45.09 INTERNATIONAL RELATIONS AND AFFAIRS
  - 45.10 POLITICAL SCIENCE AND GOVERNMENT
- 908 SOCIOLOGY
  - 45.05 DEMOGRAPHY AND POPULATION STUDIES
  - 45.11 SOCIOLOGY
- 909 SOCIOLOGY/ANTHROPOLOGY
- 910 SOCIAL SCIENCES, N.E.C.
  - 04.03 CITY/URBAN, COMMUNITY, AND REGIONAL PLANNING
  - 04.07 ARCHITECTURAL URBAN DESIGN AND PLANNING
  - 05 AREA, ETHNIC, AND CULTURAL STUDIES
  - 30.11 GERONTOLOGY
  - 43.01 CRIMINAL JUSTICE AND CORRECTIONS
  - 44.02 COMMUNITY ORGANIZATION, RESOURCES, AND SERVICES
  - 45.01 SOCIAL SCIENCES, GENERAL
  - 45.04 CRIMINOLOGY
  - 45.12 URBAN AFFAIRS/STUDIES
  - 45.99 SOCIAL SCIENCES, OTHER

HEALTH FIELDS (SEE ALSO 108)

- 701 ANESTHESIOLOGY
  - 51.1604 NURSING ANESTHETIST (POST-R.N.)
- 702 CARDIOLOGY
- 703 ONCOLOGY/CANCER RESEARCH
- 704 ENDOCRINOLOGY
- 705 GASTROENTEROLOGY
- 706 HEMATOLOGY
- 707 NEUROLOGY
  - 26.0608 NEUROSCIENCES
- 708 OBSTETRICS AND GYNECOLOGY
- 709 OPHTHALMOLOGY
  - 51.1701 OPTOMETRY (O.D.)
- 710 OTORHINOLARYNGOLOGY
- 711 PEDIATRICS
- 712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH
  - 51.22 PUBLIC HEALTH
  - 51.2202 ENVIRONMENTAL HEALTH
- 713 PSYCHIATRY
  - 51.1610 NURSING, PSYCHIATRY/MENTAL HEALTH (POST-R.N.)
- 714 PULMONARY DISEASE
- 715 RADIOLOGY
  - 26.0611 RADIATION BIOLOGY/RADIOBIOLOGY
- 716 SURGERY
- 717 CLINICAL MEDICINE, N.E.C.
  - 51.1399 MEDICAL BASIC SCIENCES, OTHER
  - 51.1201 MEDICINE (M.D.)
  - 51.14 MEDICAL CLINICAL SCIENCES (M.S., Ph.D.)
  - 51.19 OSTEOPATHIC MEDICINE (D.O.)
  - 51.21 PODIATRY (D.P.M., D.P., Pod.D.)
- 718 DENTAL SCIENCES
  - 51.04 DENTISTRY (D.D.S., D.M.D.)
  - 51.05 DENTAL CLINICAL SCIENCES/GRADUATE DENTISTRY (M.S., Ph.D.)
- 719 NURSING
  - 51.16 NURSING
    (EXCLUDING 51.1610, NURSING, PSYCHIATRY/MENTAL HEALTH – SEE 713, AND 51.1604 NURSING ANESTHETIST – See 701)
- 720 PHARMACEUTICAL SCIENCES
  - 51.20 PHARMACY
- 721 VETERINARY SCIENCES
  - 51.24 VETERINARY MEDICINE (D.V.M.)
  - 51.25 VETERINARY CLINICAL SCIENCES (M.S., Ph.D.)
- 722 HEALTH RELATED, N.E.C.
  - 31.0505 EXERCISE SCIENCE/PHYSIOLOGY AND MOVEMENT STUDIES
  - 51.2306 OCCUPATIONAL THERAPY
  - 51.2308 PHYSICAL THERAPY
  - 51.2399 REHABILITATION/THERAPEUTIC SERVICES, OTHER
  - 51.2704 NATUROPATHIC MEDICINE
  - 51.99 HEALTH PROFESSIONS AND RELATED SCIENCES, OTHER
- 723 COMMUNICATION DISORDERS SCIENCES
  - 51.02 COMMUNICATION DISORDERS SCIENCES AND SERVICES
  - 51.0201 COMMUNICATION DISORDERS, GENERAL
  - 51.0202 AUDIOLOGY/HEARING SCIENCES
  - 51.0203 SPEECH-LANGUAGE PATHOLOGY
  - 51.0204 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

SUPPLEMENTARY DATA RELEASES AVAILABLE

In response to the particular interests expressed by many users of data from the Survey of Graduate Students and Postdoctorates in Science and Engineering, a number of pamphlets have been prepared which concentrate on various aspects of the survey results. If you would like to receive additional pamphlets, please check the appropriate boxes below and return this page with your name and address to the NSF survey monitor:

J. G. Huckenpöhler, Program Analyst
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Room 965
Arlington, VA 22230

NAME: ______________________________

ORGANIZATION: ______________________________

STREET ADDRESS: ______________________________

CITY, STATE, ZIP: ______________________________

☐ 1. Trends in graduate S&E enrollment, 1975–92
☐ 2. By enrollment status (full-time/part-time)
☐ 3. By source of major support
☐ 4. By mechanism of support
☐ 5. By sex
☐ 6. By level of enrollment
☐ 7. By citizenship
☐ 8. By racial/ethnic background
☐ 9. By institutional highest degree granted
☐ 10. By type of institutional control
☐ 11. By geographic distribution
☐ 12. Individual institution listings
☐ 13. Postdoctorates and other nonfaculty research personnel (doctorate-granting institutions only)
☐ 14. In historically black colleges and universities
☐ 15. In land grant institutions
☐ 16. In health-related schools
☐ 17. Science fields
☐ 18. Engineering fields

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END

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